

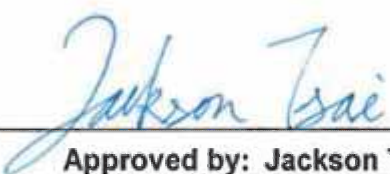


FCC Radio Test Report

FCC ID : UIDX6
Equipment : 11ax Tri-band Extender
Brand Name : ARRIS
Model Name : X6
Applicant : ARRIS
3871 Lakefield Drive Suite 300 SUWANEE Georgia
United States 30024
Manufacturer : Gemtek Technology
No.15-1 Zhonghua Road, Hsinchu Industrial Park,
Hukou, Hsinchu, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 29, 2022, and testing was started from Sep. 14, 2022 and completed on Dec. 25, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	9
1.3 Testing Location Information	9
1.4 Measurement Uncertainty	9
2 Test Configuration of EUT	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration	15
2.3 Accessories	16
2.4 Support Equipment.....	16
2.5 Test Setup Diagram	17
3 Transmitter Test Result	19
3.1 AC Power-line Conducted Emissions	19
3.2 Emission Bandwidth	21
3.3 Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	22
3.4 Peak Power Spectral Density (E.I.R.P.).....	25
3.5 Unwanted Emissions.....	28
3.6 Contention Based Protocol.....	33
3.7 Frequency Stability	34
4 Test Equipment and Calibration Data	35
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM EQUIVALENT ISOTOPICALLY RADIATED POWER (E.I.R.P.)	
APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY (E.I.R.P.)	
APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS	
APPENDIX F. TEST RESULTS OF CONTENTION-BASED PROTOCOL	
APPENDIX G. TEST RESULTS OF FREQUENCY STABILITY	
APPENDIX H. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX I. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

TEL : 886-3-656-9065	Page Number : 3 of 36
FAX : 886-3-656-9085	Issued Date : Apr. 11, 2023
Report Template No.: HE1-D1-1 Ver2.4	Report Version : 01
FCC ID: UIDX6	



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
3.4	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-
3.6	15.407(d)	Contention-Based Protocol	PASS	-
3.7	15.407(g)	Frequency Stability	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 7125	ax (HEW20)	5955 ~ 7095	1 ~ 229 [58]
5925 ~ 7125	ax (HEW40)	5965 ~ 7085	3 ~ 227 [29]
5925 ~ 7125	ax (HEW80)	5985 ~ 7025	7 ~ 215 [14]
5925 ~ 7125	ax (HEW160)	6025 ~ 6985	15 ~ 207 [7]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.925-6.425GHz	802.11ax HEW20	20	4TX
6.425-6.525GHz	802.11ax HEW20	20	4TX
6.525-6.875GHz	802.11ax HEW20	20	4TX
6.875-7.125GHz	802.11ax HEW20	20	4TX
5.925-6.425GHz	802.11ax HEW40	40	4TX
6.425-6.525GHz	802.11ax HEW40	40	4TX
6.525-6.875GHz	802.11ax HEW40	40	4TX
6.875-7.125GHz	802.11ax HEW40	40	4TX
5.925-6.425GHz	802.11ax HEW80	80	4TX
6.425-6.525GHz	802.11ax HEW80	80	4TX
6.525-6.875GHz	802.11ax HEW80	80	4TX
6.875-7.125GHz	802.11ax HEW80	80	4TX
5.925-6.425GHz	802.11ax HEW160	160	4TX
6.425-6.525GHz	802.11ax HEW160	160	4TX
6.525-6.875GHz	802.11ax HEW160	160	4TX
6.875-7.125GHz	802.11ax HEW160	160	4TX

**Beamforming**

Band	Mode	BWch (MHz)	Nant
5.925-6.425GHz	802.11ax HEW20-BF	20	4TX
6.425-6.525GHz	802.11ax HEW20-BF	20	4TX
6.525-6.875GHz	802.11ax HEW20-BF	20	4TX
6.875-7.125GHz	802.11ax HEW20-BF	20	4TX
5.925-6.425GHz	802.11ax HEW40-BF	40	4TX
6.425-6.525GHz	802.11ax HEW40-BF	40	4TX
6.525-6.875GHz	802.11ax HEW40-BF	40	4TX
6.875-7.125GHz	802.11ax HEW40-BF	40	4TX
5.925-6.425GHz	802.11ax HEW80-BF	80	4TX
6.425-6.525GHz	802.11ax HEW80-BF	80	4TX
6.525-6.875GHz	802.11ax HEW80-BF	80	4TX
6.875-7.125GHz	802.11ax HEW80-BF	80	4TX
5.925-6.425GHz	802.11ax HEW160-BF	160	4TX
6.425-6.525GHz	802.11ax HEW160-BF	160	4TX
6.525-6.875GHz	802.11ax HEW160-BF	160	4TX
6.875-7.125GHz	802.11ax HEW160-BF	160	4TX

Note:

- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- The channel defined in the IEEE Standard P802.11ax™/D6.1.



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
3	Gemtek	LPVN-GM-TX-P-001	PCB	I-Pex	6GHz
4	Gemtek	LPVN-GM-TX-P-002	PCB	I-Pex	6GHz
5	Gemtek	LPVN-GM-TX-P-003	PCB	I-Pex	6GHz
6	Gemtek	LPVN-GM-TX-P-004	PCB	I-Pex	6GHz

Ant.	Port	Gain (dBi)			
		U-NII-5	U-NII-6	U-NII-7	U-NII-8
3	1	2.62	2.46	2.28	3.06
4	2	2.13	2.19	3.40	2.53
5	3	2.96	2.22	2.03	3.37
6	4	3.02	2.13	2.41	2.78

Note 1: The EUT has six antennas.

For 6GHz function:

For IEEE 802.11 a/ax mode (4TX/4RX)

Ant. 3 (port 1) ~ Ant. 6 (port 4) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition					
EUT Power Type		From AC Adapter			
EUT Function	☒	Indoor Access Point	☐ Subordinate		
	☐	Indoor Client	☐ Standard Power Access Point		
	☐	Dual Client	☐ Standard Client		
	☐	Fixed Client			
Beamforming Function	☒	With beamforming	☐ Without beamforming		
Resource Unit(802.11ax)	☒	Full RU	☐ Partial RU		
Software / Firmware Version for CBP		17.10.188.6401			
Type of EUT					
☒	Stand-alone				
☐	Combined (EUT where the radio part is fully integrated within another device)				
	Combined Equipment - Brand Name / Model No.:		...		
☐	Plug-in radio (EUT intended for a variety of host systems)				
	Host System - Brand Name / Model No.:				
☐	Other:				

Note: The above information was declared by manufacturer.

**1.1.4 Mode Test Duty Cycle****Non-Beamforming**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20_Nss1,(MCS0)_4TX	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20_Nss4,(MCS0)_4TX	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss1,(MCS0)_4TX	0.964	0.16	780.625u	3k
802.11ax HEW40_Nss4,(MCS0)_4TX	0.964	0.16	780.625u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.936	0.29	413.438u	3k
802.11ax HEW80_Nss4,(MCS0)_4TX	0.937	0.28	413.125u	3k
802.11ax HEW160_Nss1,(MCS0)_4TX	0.894	0.49	236.563u	10k
802.11ax HEW160_Nss4,(MCS0)_4TX	0.895	0.48	236.563u	10k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.961	0.17	4.392m	300
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.948	0.23	5.112m	300
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.936	0.29	5.147m	300
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.949	0.23	4.808m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ KDB 987594 D01 v01r02
- ♦ KDB 987594 D02 v01r01
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 412172 D01 v01r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne Chiu	22.1~22.7°C / 57~59%	03/Oct/2022
RF Conducted	TH01-HY	Luby hsu	24.3~25.2°C / 48~55%	27/Sep/2022~11/Oct/2022
Contention-Based Protocol	DFS03-HY	Tony Chang	18.5~25.8°C / 49~61%	13/Dec/2022~21/Dec/2022
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Lego Lin	25.1~26.2°C / 55~60%	14/Sep/2022~24/Oct/2022
Radiated (Co-location)	03CH09-HY	Lego Lin	25.1~26.2°C / 55~60%	25/Dec/2022

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	1.5 MHz	Confidence levels of 95%
Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	1.2 dB	Confidence levels of 95%
Peak Power Spectral Density (E.I.R.P.)	1.2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Contention-Based Protocol	1 ms	Confidence levels of 95%
Frequency Stability	1.18 ppm	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Non-Beamforming

Test Software Version	accessMTool_REL_3_2_1_5
-----------------------	-------------------------

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5955MHz	45
6175MHz	35
6415MHz	39
6435MHz	39
6475MHz	39
6515MHz	39
6535MHz	37
6695MHz	37
6855MHz	43
6875MHz	44
6895MHz	45
6995MHz	42
7095MHz	46
802.11ax HEW20_Nss4,(MCS0)_4TX	-
5955MHz	53
6175MHz	53
6415MHz	36
6435MHz	45
6475MHz	47
6515MHz	37
6535MHz	49
6695MHz	53
6855MHz	57
6875MHz	56
6895MHz	48
6995MHz	46
7095MHz	52
802.11ax HEW40_Nss1,(MCS0)_4TX	-



Mode	Power Setting
5965MHz	50
6165MHz	52
6405MHz	46
6445MHz	47
6485MHz	48
6525MHz	48
6565MHz	49
6685MHz	50
6845MHz	57
6885MHz	57
6925MHz	54
7005MHz	56
7085MHz	59
802.11ax HEW40_Nss4,(MCS0)_4TX	-
5965MHz	68
6165MHz	67
6405MHz	64
6445MHz	59
6485MHz	61
6525MHz	60
6565MHz	61
6685MHz	62
6845MHz	67
6885MHz	67
6925MHz	67
7005MHz	57
7085MHz	74
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5985MHz	72
6145MHz	67
6385MHz	58
6465MHz	61
6545MHz	60
6625MHz	63
6705MHz	63



Mode	Power Setting
6785MHz	71
6865MHz	71
6945MHz	70
7025MHz	63
802.11ax HEW80_Nss4,(MCS0)_4TX	-
5985MHz	77
6145MHz	78
6385MHz	73
6465MHz	74
6545MHz	72
6625MHz	74
6705MHz	76
6785MHz	78
6865MHz	79
6945MHz	71
7025MHz	80
802.11ax HEW160_Nss1,(MCS0)_4TX	-
6025MHz	78
6185MHz	75
6345MHz	69
6505MHz	73
6665MHz	70
6825MHz	81
6985MHz	79
802.11ax HEW160_Nss4,(MCS0)_4TX	-
6025MHz	85
6185MHz	88
6345MHz	79
6505MHz	79
6665MHz	85
6825MHz	88
6985MHz	84

**Beamforming**

Test Software Version	Dos 6.1
------------------------------	---------

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5955MHz	37
6175MHz	37
6415MHz	37
6435MHz	39
6475MHz	40
6515MHz	40
6535MHz	38
6695MHz	39
6855MHz	40
6875MHz	43
6895MHz	37
6995MHz	39
7095MHz	41
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5965MHz	47
6165MHz	50
6405MHz	47
6445MHz	46
6485MHz	40
6525MHz	54
6565MHz	51
6685MHz	49
6845MHz	52
6885MHz	44
6925MHz	48
7005MHz	50
7085MHz	55
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5985MHz	64
6145MHz	58
6385MHz	65
6465MHz	65



Mode	Power Setting
6545MHz	66
6625MHz	69
6705MHz	62
6785MHz	67
6865MHz	59
6945MHz	56
7025MHz	61
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
6025MHz	67
6185MHz	69
6345MHz	74
6505MHz	71
6665MHz	75
6825MHz	72
6985MHz	70



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) (Beamforming) Contention Based Protocol Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.)		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4GHz WLAN + 5GHz WLAN + 6GHz WLAN
Refer to Sporton Test Report No.: FA282903 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	



2.3 Accessories

AC Adapter 1 (US Plug)	Brand Name	ASIAN POWER	Model Name	WB-24M12FU
	Power Rating	I/P:100-120Vac, 0.7A, O/P: 12Vdc, 2A		
	DC Power Cable	1.8 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2 (US Plug)	Brand Name	NetBit	Model Name	NBS24M120200VU
	Power Rating	I/P:100-120Vac, 0.6A, O/P: 12Vdc, 2A		
	DC Power Cable	1.8 meter, non-shielded cable, w/o ferrite core		
AC Adapter 3 (US Plug)	Brand Name	NetBit	Model Name	NBS24N120200VU
	Power Rating	I/P:100-120Vac, 0.6A, O/P: 12Vdc, 2A		
	DC Power Cable	1.8 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	Category	CAT 5e	In/Out door	indoor
	Signal Line	1.5 meter, non-shielded cable		

Reminder: Regarding to more detail and other information, please refer to user manual.

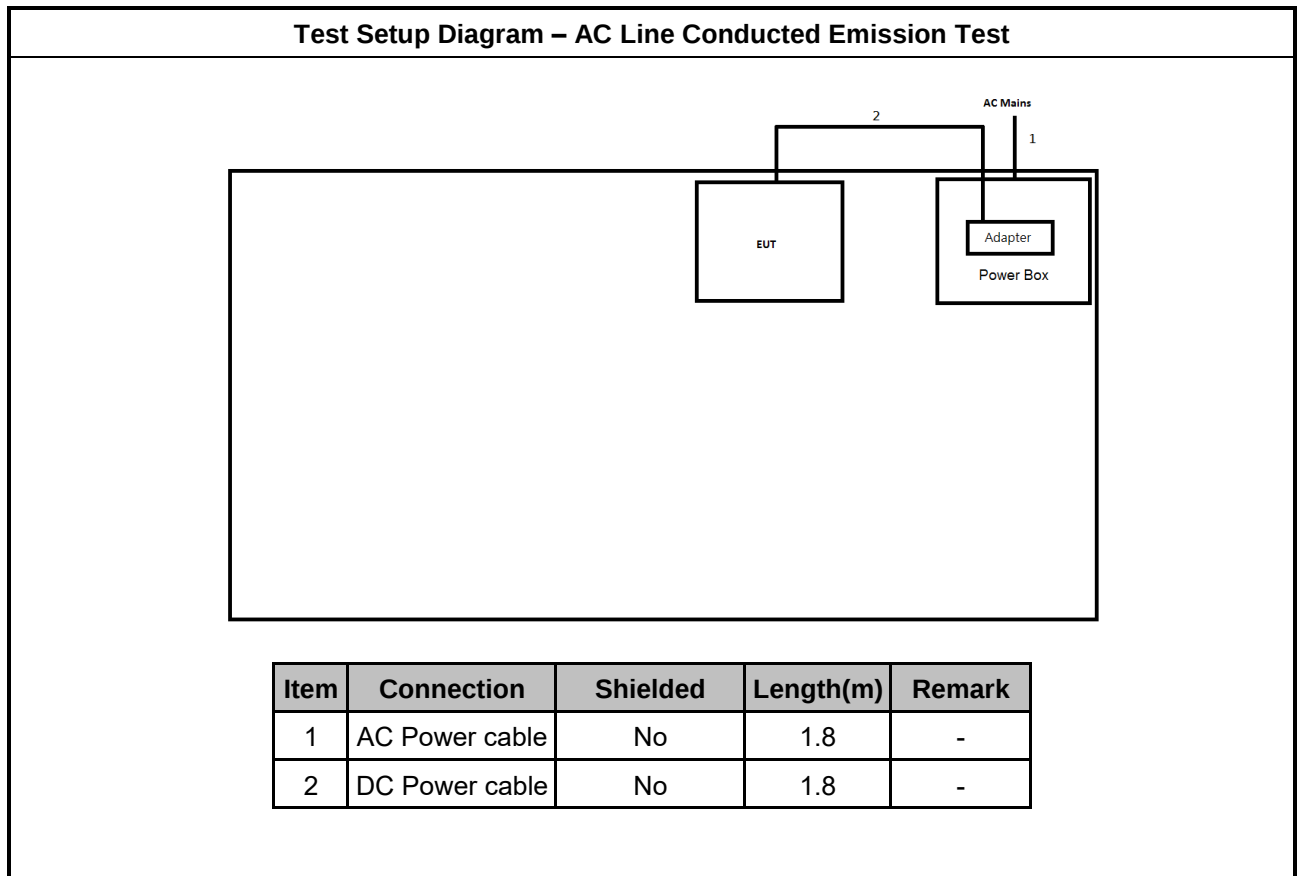
2.4 Support Equipment

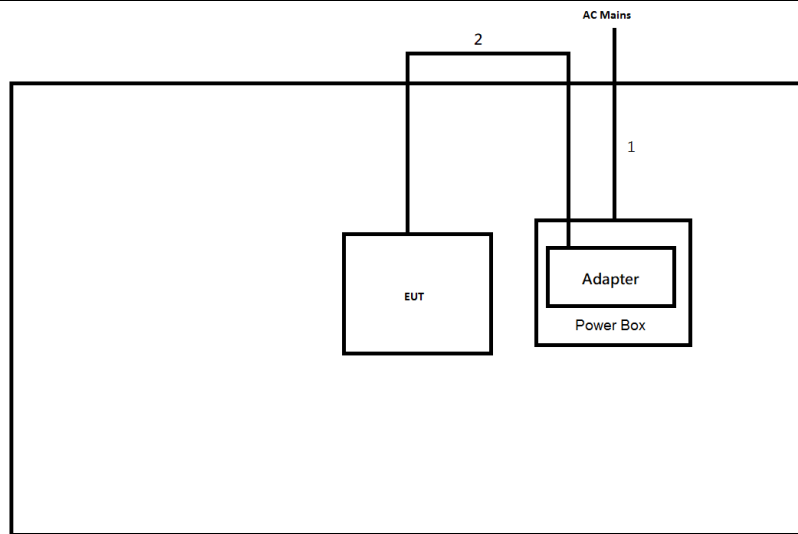
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Contention-Based Protocol					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Client(Slave)	ARRIS	X6	-	Provided by Customer
2	Notebook	HP	HSTNN-I29C	-	-
3	Notebook	DELL	Latitude E5550	-	-
4	AP	ASUS	RT-AX88U	-	-

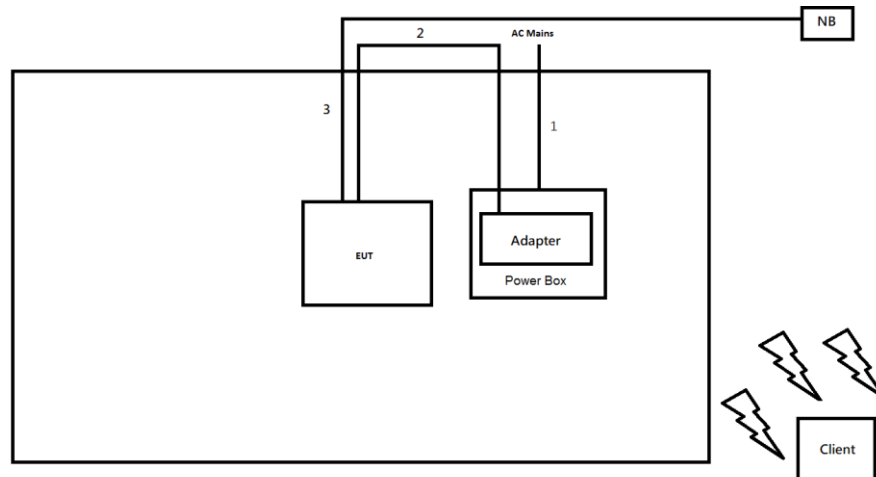
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	5220M	-	Remote
2	Adapter for NB	HP	PPP012L-E	-	Remote

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test (Non-Beamforming)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Beamforming)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	RJ45 cable	No	10.0	-



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

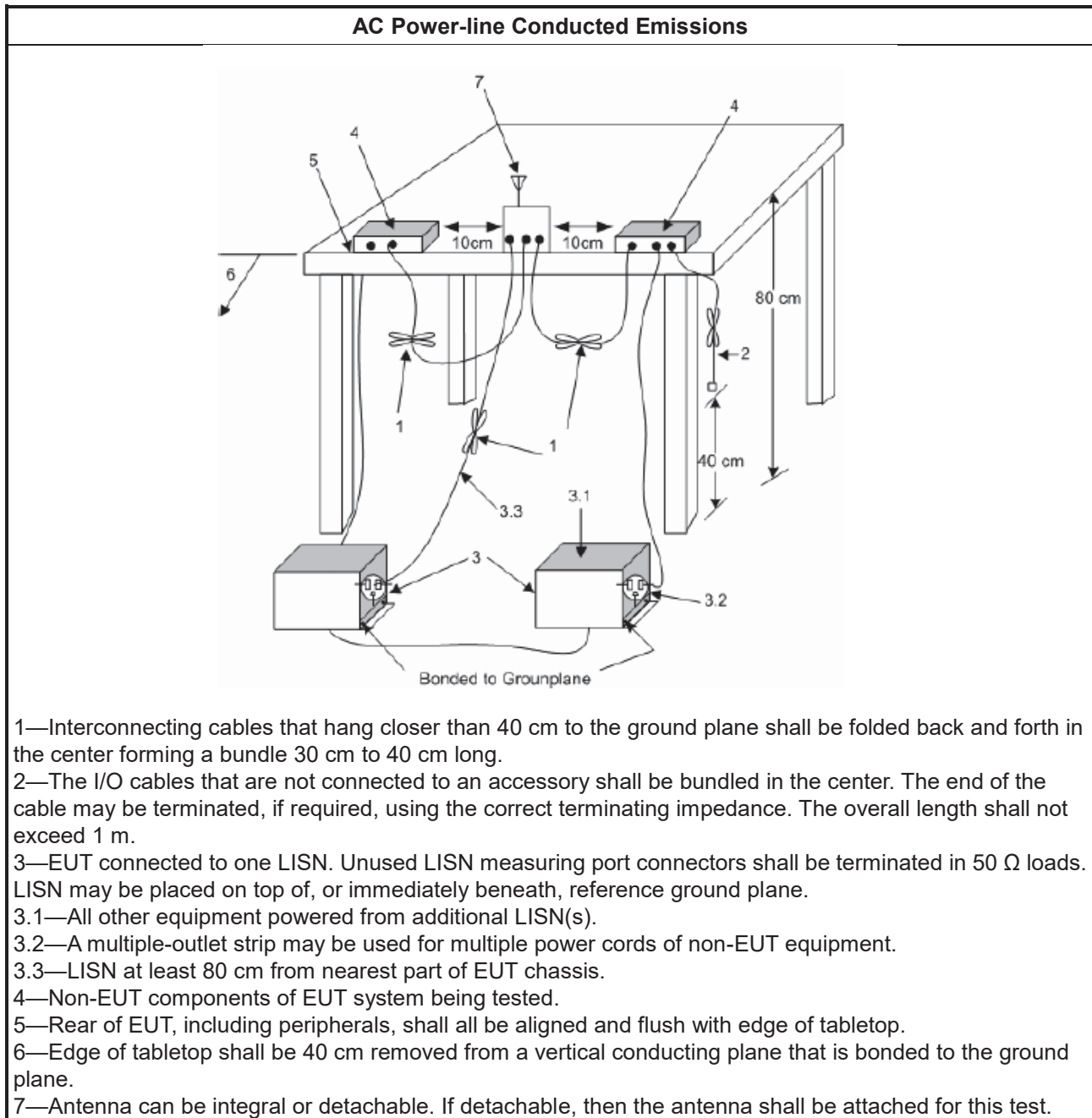
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5925-6425 GHz band, N/A
☒	For the 6425-6525 GHz band, N/A
☒	For the 6525-6875 GHz band, N/A
☒	For the 6875-7125 GHz band, N/A

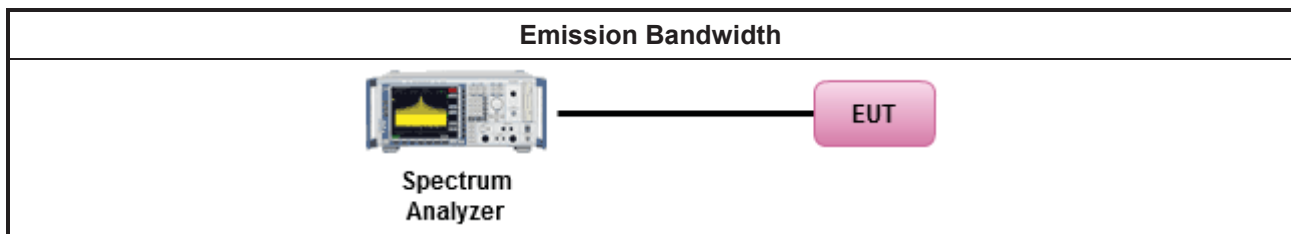
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

3.3.1 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.



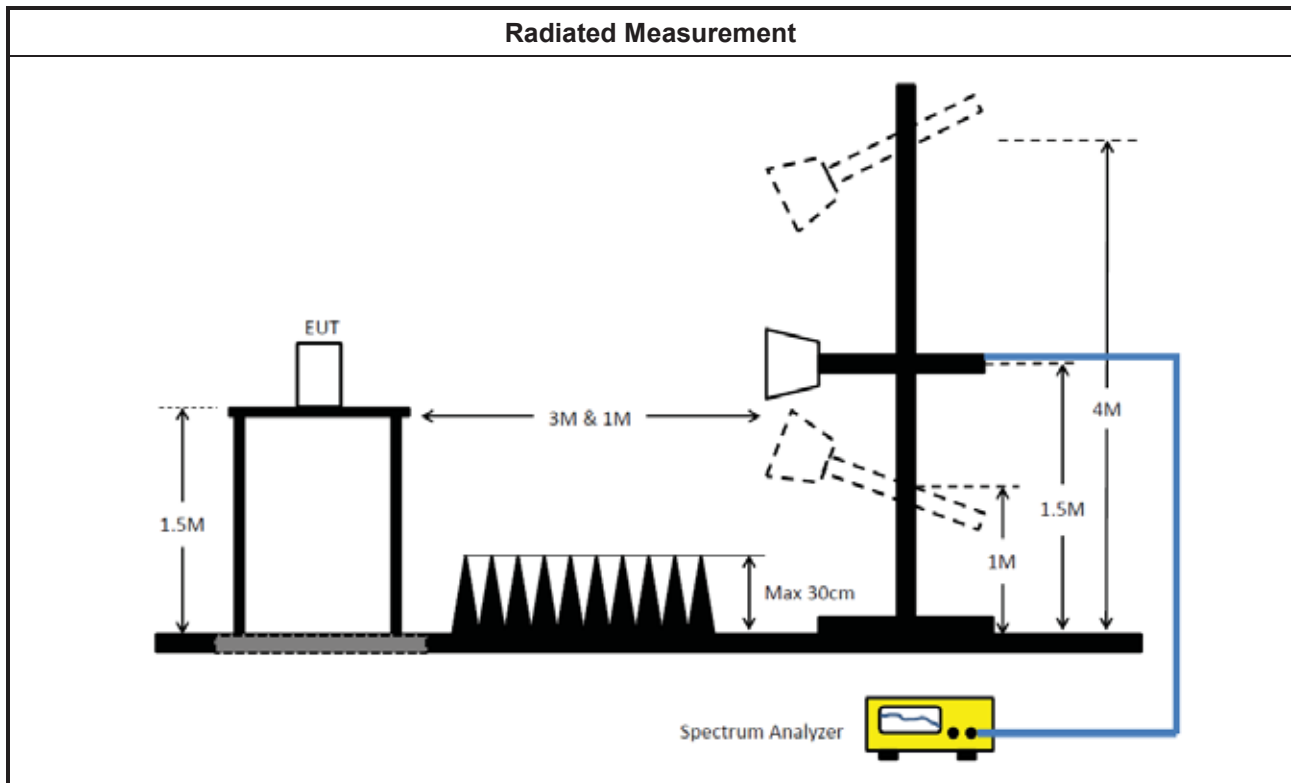
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
▪ Maximum Output Power Setting	
☐	Duty cycle $\geq 98\%$
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
	☐ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as KDB 789033, clause E Method PM-G (using an RF average power meter).
☐ For conducted measurement.	
☐	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$
☒ For radiated measurement.	
☒	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as KDB 789033, clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	▪ Refer as KDB 412172, clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Equivalent Isotropically Radiated Power (E.I.R.P)

Refer as Appendix C



3.4 Peak Power Spectral Density (E.I.R.P.)

3.4.1 Peak Power Spectral Density (E.I.R.P.) Limit

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
☒	For the 5.925 ~ 6.425 GHz band:
☐	For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
☐	For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
☐	For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
☐	For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
☐	For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒	For the 6.425 ~ 6.525 GHz band:
☐	For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
☐	For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒	For the 6.525 ~ 6.875 GHz band:
☐	For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
☐	For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
☐	For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
☐	For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
☐	For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒	For the 6.875 ~ 7.125 GHz band:
☐	For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
☐	For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

3.4.2 Measuring Instruments

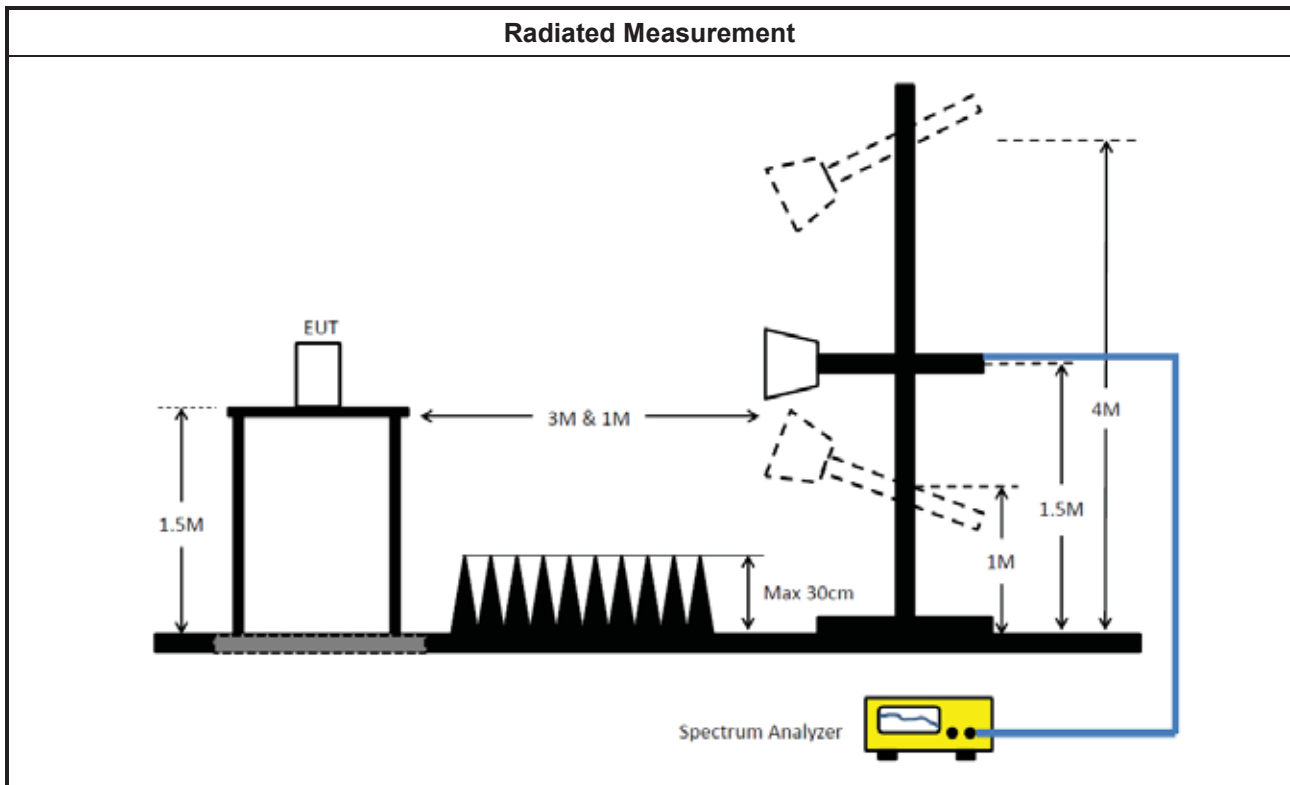
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
☐	Refer as KDB 789033, clause E Method SA-2. (spectral trace averaging)
☐	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☐ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☒	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☒	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	
☒ For radiated measurement.	
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
Refer as KDB 789033, clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
Refer as KDB 412172, clause 2.2 for EIRP calculation.	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density (E.I.R.P.)

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

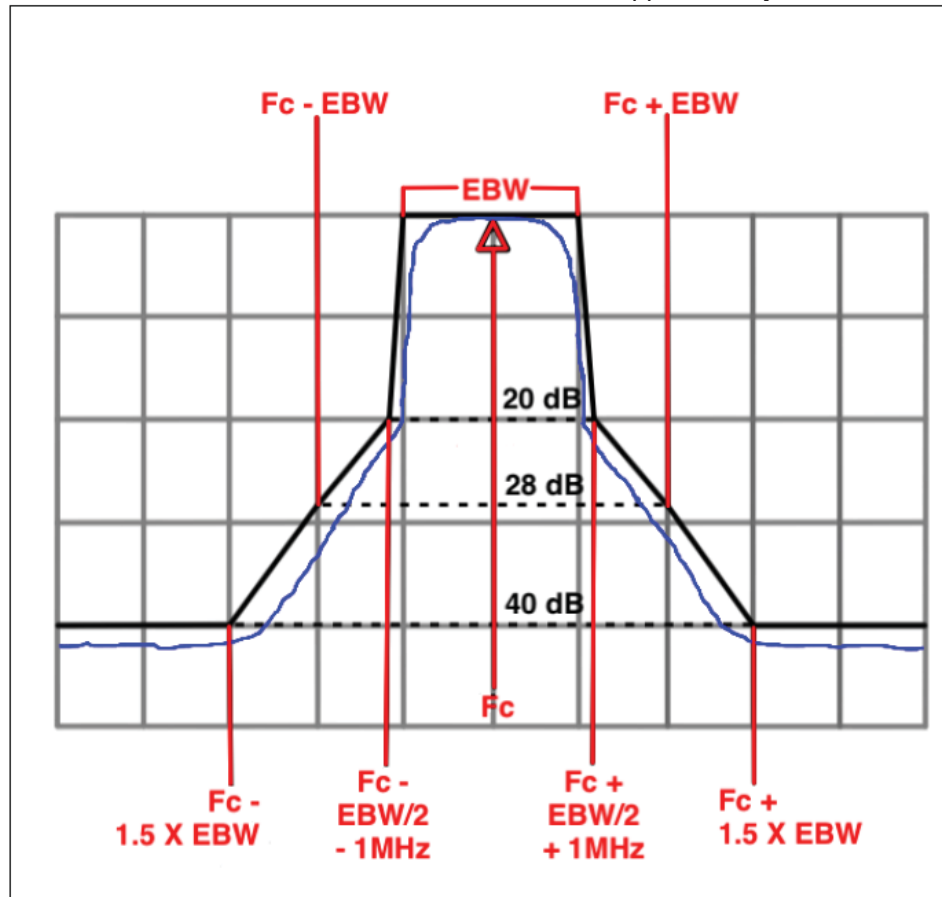
Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$).
EX. Above 18GHz emission limit calculation (3m to 1m) = 54dBuV/m at 3m + 9.54dB = 63.54 dBuV/m at 1m.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$). EX. Above 18GHz emission limit calculation (3m to 1m) = 68.2dBuV/m at 3m + 9.54dB = 77.74 dBuV/m at 1m.
Frequency	Emission MASK Limit
5.945 – 7.125 GHz	Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the



limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.





3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	☐ Refer as KDB 789033, G)6) Method VB (Reduced VBW).
	☒ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.(For restricted band average measurement)
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as KDB 789033, clause G)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
	☒ Refer as KDB 789033, clause G)3)d)iii) for Band edge Integration measurements.
For emission MASK shall be measured using following options below:	
	☒ Refer as KDB 987594 D02, J) In-Band Emissions
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	



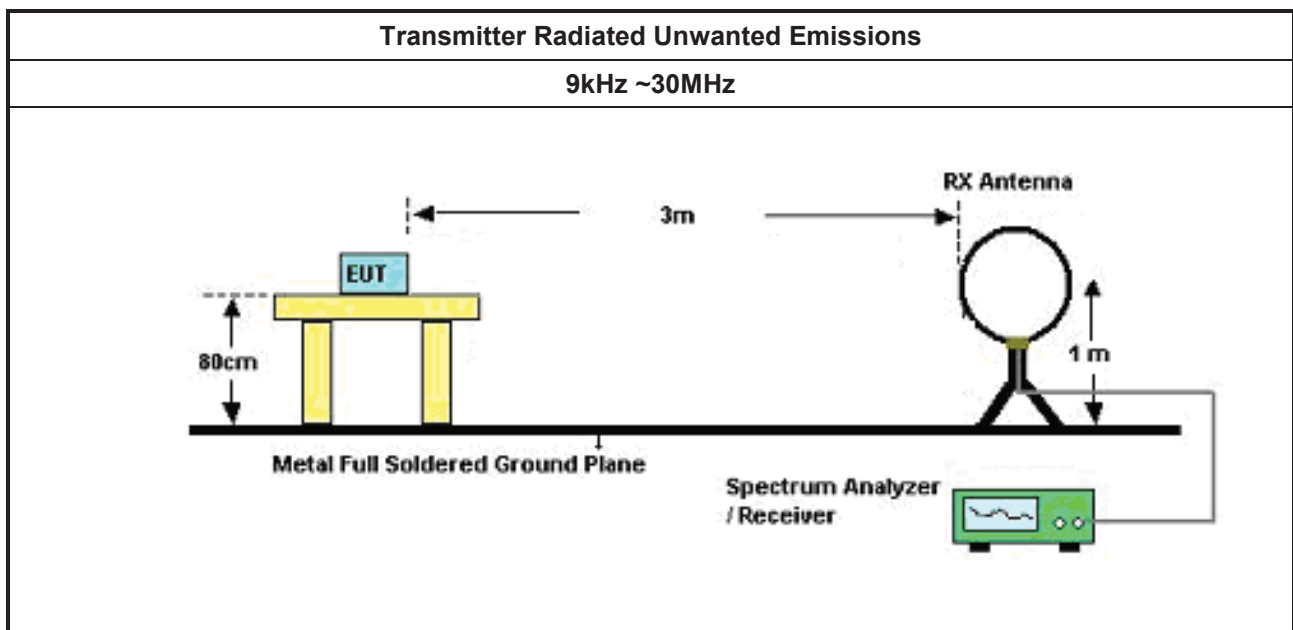
▪ Use the following spectrum analyzer settings:	
▪ Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.	
▪ Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.	
▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.	
▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.	

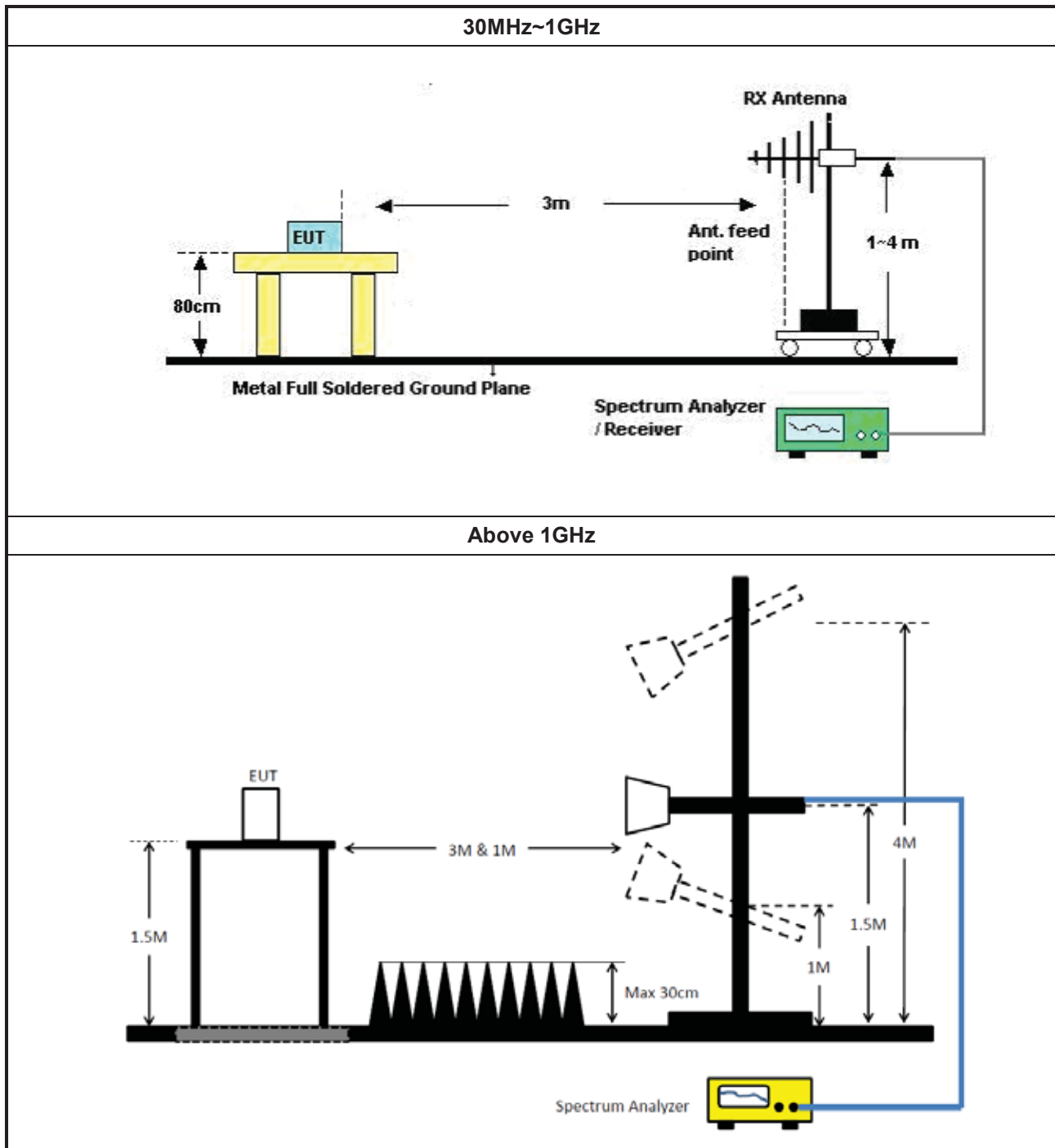
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Contention Based Protocol

3.6.1 Contention Based Protocol Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

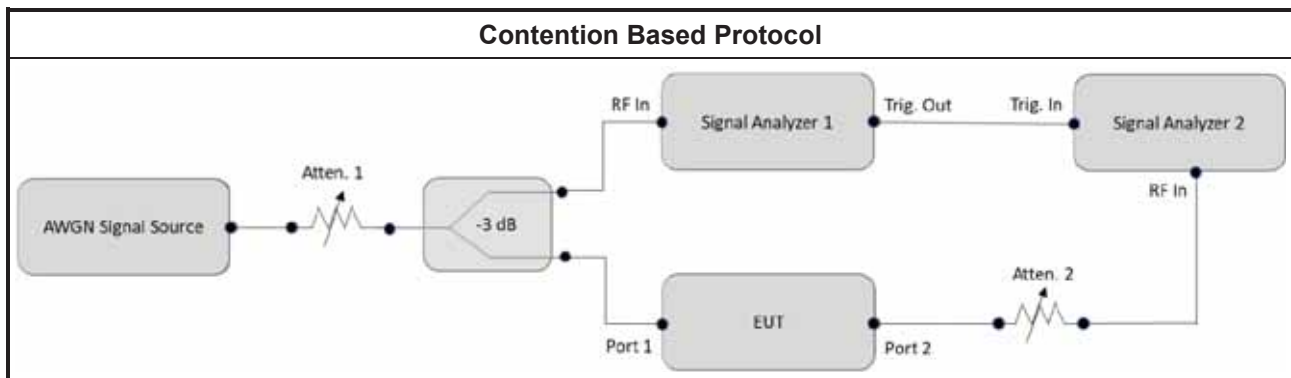
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
■	For Contention Based Protocol shall be measured using following options below:
☒	Refer as KDB 987594 D02, I) Contention Based Protocol.

3.6.4 Test Setup



3.6.5 Test Result of Contention Based Protocol

Refer as Appendix F

3.7 Frequency Stability

3.7.1 Frequency Stability Limit

Frequency Stability Limit	
	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

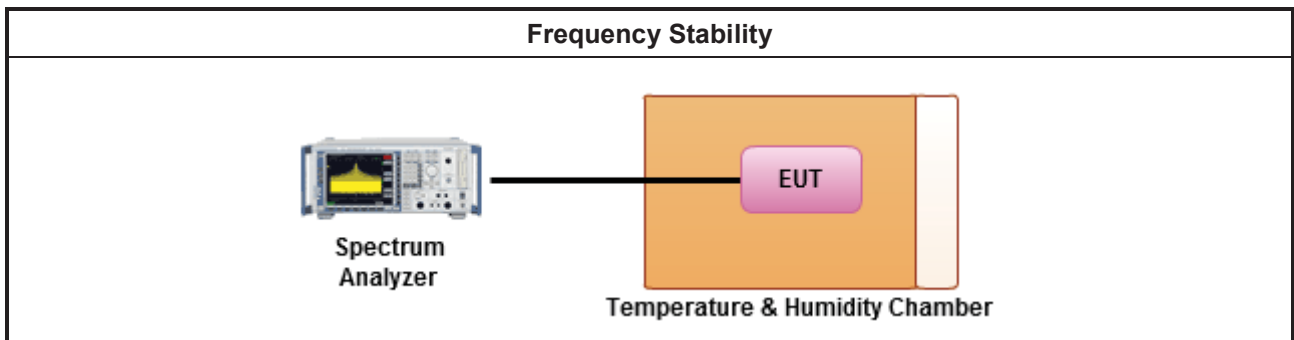
3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
	Frequency stability with respect to ambient temperature
	Frequency stability when varying supply voltage
	Extreme temperature is -30°C~50°C.

3.7.4 Test Setup



3.7.5 Test Result of Frequency Stability

Refer as Appendix G



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
Programmable Temp. & Humi. Chamber	Giant Force	GTH-225-20-SP -SD	MAA1112-007	-20~100℃	19/May/2022	18/May/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15407_NII	Sporton	5.10.8.5	N/A	N/A	N/A	N/A

Instrument for Contention-Based Protocol Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP30	100793	9 kHz ~ 30GHz	13/Jun/2022	12/Jun/2023
Vector Signal Generator	R&S	SMU200A	102098	100kHz~6GHz	26/Apr/2022	25/Apr/2023
DFS-Adaptivity	Sporton	Ver 2.7	N/A	N/A	N/A	N/A
Adaptivity Analysis-5G	Sporton	Ver 2.8	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
RF Cable-R03m	Jye Bao	RG142	03CH09-cable-01	9kHz~30MHz	17/Aug/2022	16/Aug/2023
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	07/Feb/2022	06/Feb/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_NII	Sporton	V5.10.8.7.3	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
SENSE-EMI	Sporton	NA	V5.10.8.7	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

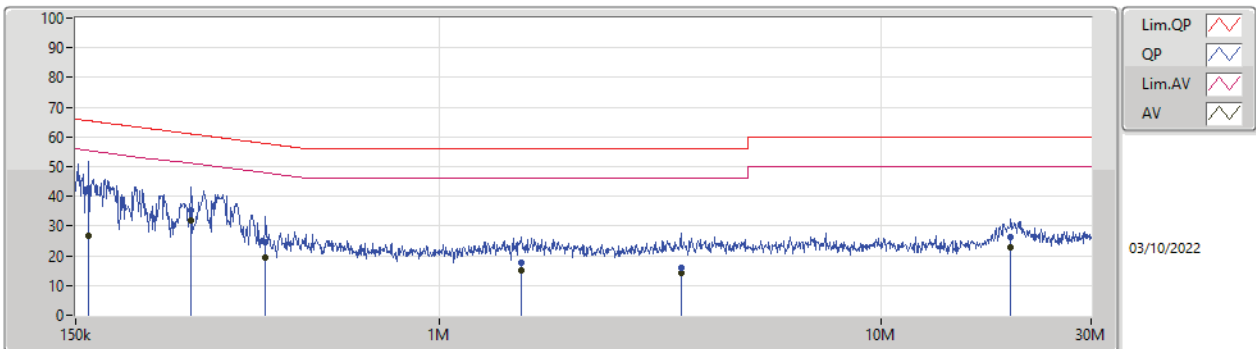
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	274.083k	31.97	50.99	-19.02	Line

**Result**

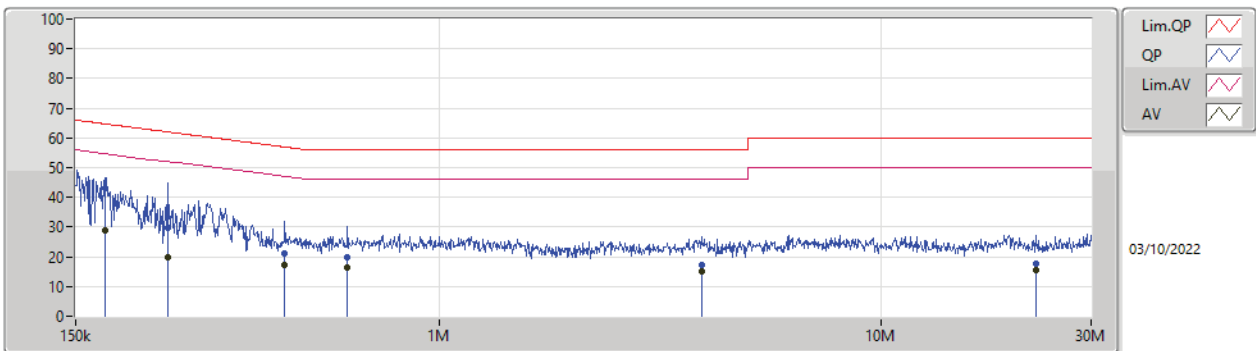
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	160.533k	42.49	65.43	-22.94	Line	-
Mode 1	Pass	AV	160.533k	26.53	55.43	-28.90	Line	-
Mode 1	Pass	QP	274.083k	35.26	60.99	-25.73	Line	-
Mode 1	Pass	AV	274.083k	31.97	50.99	-19.02	Line	-
Mode 1	Pass	QP	403.694k	24.55	57.78	-33.23	Line	-
Mode 1	Pass	AV	403.694k	19.35	47.78	-28.43	Line	-
Mode 1	Pass	QP	1.538M	17.69	56.00	-38.31	Line	-
Mode 1	Pass	AV	1.538M	14.99	46.00	-31.01	Line	-
Mode 1	Pass	QP	3.527M	15.87	56.00	-40.13	Line	-
Mode 1	Pass	AV	3.527M	14.40	46.00	-31.60	Line	-
Mode 1	Pass	QP	19.71M	26.47	60.00	-33.53	Line	-
Mode 1	Pass	AV	19.71M	22.71	50.00	-27.29	Line	-
Mode 1	Pass	QP	174.571k	43.22	64.74	-21.52	Neutral	-
Mode 1	Pass	AV	174.571k	28.99	54.74	-25.75	Neutral	-
Mode 1	Pass	QP	242.179k	29.79	62.02	-32.23	Neutral	-
Mode 1	Pass	AV	242.179k	19.78	52.02	-32.24	Neutral	-
Mode 1	Pass	QP	446.062k	20.92	56.96	-36.04	Neutral	-
Mode 1	Pass	AV	446.062k	17.21	46.96	-29.75	Neutral	-
Mode 1	Pass	QP	618.813k	19.87	56.00	-36.13	Neutral	-
Mode 1	Pass	AV	618.813k	16.31	46.00	-29.69	Neutral	-
Mode 1	Pass	QP	3.929M	17.18	56.00	-38.82	Neutral	-
Mode 1	Pass	AV	3.929M	15.15	46.00	-30.85	Neutral	-
Mode 1	Pass	QP	22.485M	17.68	60.00	-42.32	Neutral	-
Mode 1	Pass	AV	22.485M	15.70	50.00	-34.30	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	160.533k	42.49	65.43	-22.94	19.63	Line	-	22.86	9.69	0.03	9.91			
AV	160.533k	26.53	55.43	-28.90	19.63	Line	-	6.90	9.69	0.03	9.91			
QP	274.083k	35.26	60.99	-25.73	19.63	Line	-	15.63	9.69	0.03	9.91			
AV	274.083k	31.97	50.99	-19.02	19.63	Line	-	12.34	9.69	0.03	9.91			
QP	403.694k	24.55	57.78	-33.23	19.63	Line	-	4.92	9.68	0.04	9.91			
AV	403.694k	19.35	47.78	-28.43	19.63	Line	-	-0.28	9.68	0.04	9.91			
QP	1.538M	17.69	56.00	-38.31	19.68	Line	-	-1.99	9.69	0.07	9.92			
AV	1.538M	14.99	46.00	-31.01	19.68	Line	-	-4.69	9.69	0.07	9.92			
QP	3.527M	15.87	56.00	-40.13	19.75	Line	-	-3.88	9.71	0.12	9.92			
AV	3.527M	14.40	46.00	-31.60	19.75	Line	-	-5.35	9.71	0.12	9.92			
QP	19.71M	26.47	60.00	-33.53	19.99	Line	-	6.48	9.79	0.27	9.93			
AV	19.71M	22.71	50.00	-27.29	19.99	Line	-	2.72	9.79	0.27	9.93			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	174.571k	43.22	64.74	-21.52	19.66	Neutral	-	23.56	9.72	0.03	9.91			
AV	174.571k	28.99	54.74	-25.75	19.66	Neutral	-	9.33	9.72	0.03	9.91			
QP	242.179k	29.79	62.02	-32.23	19.66	Neutral	-	10.13	9.72	0.03	9.91			
AV	242.179k	19.78	52.02	-32.24	19.66	Neutral	-	0.12	9.72	0.03	9.91			
QP	446.062k	20.92	56.96	-36.04	19.67	Neutral	-	1.25	9.72	0.04	9.91			
AV	446.062k	17.21	46.96	-29.75	19.67	Neutral	-	-2.46	9.72	0.04	9.91			
QP	618.813k	19.87	56.00	-36.13	19.67	Neutral	-	0.20	9.72	0.04	9.91			
AV	618.813k	16.31	46.00	-29.69	19.67	Neutral	-	-3.36	9.72	0.04	9.91			
QP	3.929M	17.18	56.00	-38.82	19.81	Neutral	-	-2.63	9.76	0.13	9.92			
AV	3.929M	15.15	46.00	-30.85	19.81	Neutral	-	-4.66	9.76	0.13	9.92			
QP	22.485M	17.68	60.00	-42.32	20.25	Neutral	-	-2.57	10.03	0.29	9.93			
AV	22.485M	15.70	50.00	-34.30	20.25	Neutral	-	-4.55	10.03	0.29	9.93			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	26.73M	19.189M	19M2D1D	22.23M	19.13M
802.11ax HEW20_Nss4,(MCS0)_4TX	24.9M	19.159M	19M2D1D	22.23M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	45.12M	37.907M	38M0D1D	41.4M	37.79M
802.11ax HEW40_Nss4,(MCS0)_4TX	45M	37.966M	38M0D1D	41.4M	37.79M
802.11ax HEW80_Nss1,(MCS0)_4TX	85.8M	77.577M	77M6D1D	82.56M	77.342M
802.11ax HEW80_Nss4,(MCS0)_4TX	86.52M	77.46M	77M5D1D	81.72M	77.225M
802.11ax HEW160_Nss1,(MCS0)_4TX	212.16M	156.8M	157MD1D	165.84M	156.33M
802.11ax HEW160_Nss4,(MCS0)_4TX	265.2M	157.035M	157MD1D	166.8M	156.33M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	25.83M	19.189M	19M2D1D	22.47M	19.13M
802.11ax HEW20_Nss4,(MCS0)_4TX	25.02M	19.159M	19M2D1D	21.69M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	49.02M	37.907M	38M0D1D	41.52M	37.79M
802.11ax HEW40_Nss4,(MCS0)_4TX	45.06M	37.848M	37M9D1D	41.16M	37.79M
802.11ax HEW80_Nss1,(MCS0)_4TX	85.56M	77.46M	77M5D1D	83.4M	77.342M
802.11ax HEW80_Nss4,(MCS0)_4TX	84.84M	77.46M	77M5D1D	82.56M	77.342M
802.11ax HEW160_Nss1,(MCS0)_4TX	167.04M	156.565M	157MD1D	166.32M	156.33M
802.11ax HEW160_Nss4,(MCS0)_4TX	171.6M	156.33M	156MD1D	166.32M	156.33M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	26.91M	19.159M	19M2D1D	22.2M	19.13M
802.11ax HEW20_Nss4,(MCS0)_4TX	29.01M	19.189M	19M2D1D	21.84M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	45.78M	37.907M	38M0D1D	41.22M	37.79M
802.11ax HEW40_Nss4,(MCS0)_4TX	46.86M	37.848M	37M9D1D	41.46M	37.79M
802.11ax HEW80_Nss1,(MCS0)_4TX	94.44M	77.695M	77M7D1D	82.56M	77.342M
802.11ax HEW80_Nss4,(MCS0)_4TX	85.56M	77.577M	77M6D1D	81.72M	77.225M
802.11ax HEW160_Nss1,(MCS0)_4TX	167.76M	156.8M	157MD1D	166.08M	156.095M
802.11ax HEW160_Nss4,(MCS0)_4TX	284.88M	157.74M	158MD1D	242.64M	156.8M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	28.17M	19.189M	19M2D1D	21.87M	19.13M
802.11ax HEW20_Nss4,(MCS0)_4TX	27.12M	19.159M	19M2D1D	22.02M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	45.42M	37.907M	38M0D1D	41.28M	37.79M
802.11ax HEW40_Nss4,(MCS0)_4TX	46.5M	37.907M	38M0D1D	40.86M	37.79M
802.11ax HEW80_Nss1,(MCS0)_4TX	86.76M	77.577M	77M6D1D	82.68M	77.342M
802.11ax HEW80_Nss4,(MCS0)_4TX	96.24M	77.577M	77M6D1D	83.88M	77.46M
802.11ax HEW160_Nss1,(MCS0)_4TX	170.88M	156.8M	157MD1D	166.8M	156.565M
802.11ax HEW160_Nss4,(MCS0)_4TX	278.16M	157.27M	157MD1D	244.08M	157.27M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.44M	19.189M	23.64M	19.159M	22.53M	19.13M	25.17M	19.159M
6175MHz	Pass	Inf	25.14M	19.189M	26.73M	19.189M	23.22M	19.159M	22.38M	19.13M
6415MHz	Pass	Inf	24.63M	19.159M	24.96M	19.159M	22.23M	19.13M	22.71M	19.159M
6435MHz	Pass	Inf	25.83M	19.159M	23.58M	19.159M	23.67M	19.159M	24.81M	19.189M
6475MHz	Pass	Inf	23.43M	19.159M	24.24M	19.159M	22.71M	19.13M	22.47M	19.189M
6515MHz	Pass	Inf	24.15M	19.189M	23.76M	19.13M	23.82M	19.189M	25.62M	19.159M
6535MHz	Pass	Inf	22.74M	19.159M	23.76M	19.159M	22.29M	19.13M	24M	19.159M
6695MHz	Pass	Inf	25.41M	19.13M	23.64M	19.159M	22.2M	19.159M	22.68M	19.159M
6855MHz	Pass	Inf	26.91M	19.13M	24.75M	19.159M	22.5M	19.13M	22.5M	19.13M
6875MHz	Pass	Inf	22.29M	19.159M	23.76M	19.159M	22.77M	19.159M	22.65M	19.13M
6895MHz	Pass	Inf	23.88M	19.159M	21.87M	19.189M	22.26M	19.159M	28.17M	19.189M
6995MHz	Pass	Inf	24.3M	19.159M	23.22M	19.159M	22.2M	19.159M	25.35M	19.189M
7095MHz	Pass	Inf	25.68M	19.159M	22.38M	19.189M	22.41M	19.159M	27.57M	19.13M
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.71M	19.13M	22.38M	19.1M	22.71M	19.1M	24.12M	19.159M
6175MHz	Pass	Inf	24.81M	19.1M	23.64M	19.159M	22.77M	19.13M	22.35M	19.1M
6415MHz	Pass	Inf	24.9M	19.13M	23.1M	19.159M	22.23M	19.159M	23.01M	19.159M
6435MHz	Pass	Inf	24.45M	19.13M	22.17M	19.1M	21.69M	19.159M	23.85M	19.13M
6475MHz	Pass	Inf	25.02M	19.13M	22.14M	19.13M	23.25M	19.13M	23.91M	19.159M
6515MHz	Pass	Inf	22.92M	19.13M	24.15M	19.13M	22.86M	19.159M	23.94M	19.159M
6535MHz	Pass	Inf	22.92M	19.13M	24.09M	19.13M	21.84M	19.1M	25.86M	19.13M
6695MHz	Pass	Inf	26.46M	19.159M	25.11M	19.1M	22.71M	19.1M	24.21M	19.189M
6855MHz	Pass	Inf	21.84M	19.13M	23.82M	19.13M	29.01M	19.159M	24.63M	19.13M
6875MHz	Pass	Inf	22.83M	19.13M	26.13M	19.189M	23.19M	19.13M	22.74M	19.13M
6895MHz	Pass	Inf	23.61M	19.13M	22.35M	19.159M	23.55M	19.159M	26.22M	19.13M
6995MHz	Pass	Inf	22.08M	19.1M	22.02M	19.13M	22.65M	19.159M	26.04M	19.159M
7095MHz	Pass	Inf	22.59M	19.13M	27.12M	19.159M	22.98M	19.159M	22.5M	19.13M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	43.08M	37.848M	44.1M	37.907M	42.6M	37.848M	41.94M	37.848M
6165MHz	Pass	Inf	42.06M	37.907M	42.12M	37.907M	41.4M	37.848M	41.46M	37.848M
6405MHz	Pass	Inf	45.12M	37.907M	42.6M	37.79M	42.36M	37.848M	43.92M	37.848M
6445MHz	Pass	Inf	45.84M	37.848M	43.26M	37.907M	41.82M	37.848M	41.88M	37.79M
6485MHz	Pass	Inf	43.62M	37.848M	44.82M	37.907M	41.52M	37.79M	43.62M	37.848M
6525MHz	Pass	Inf	49.02M	37.848M	41.7M	37.848M	42.36M	37.848M	42.54M	37.848M
6565MHz	Pass	Inf	41.76M	37.907M	42.48M	37.848M	42.66M	37.79M	41.88M	37.848M
6685MHz	Pass	Inf	41.64M	37.907M	41.94M	37.848M	42.18M	37.848M	43.8M	37.848M
6845MHz	Pass	Inf	42.42M	37.907M	42.06M	37.848M	41.22M	37.907M	42M	37.848M
6885MHz	Pass	Inf	45.78M	37.848M	42.3M	37.848M	41.34M	37.848M	42.96M	37.848M
6925MHz	Pass	Inf	41.28M	37.848M	42.18M	37.907M	42.9M	37.848M	43.02M	37.848M
7005MHz	Pass	Inf	42.36M	37.848M	41.52M	37.848M	42.96M	37.848M	44.7M	37.79M
7085MHz	Pass	Inf	45.42M	37.848M	43.2M	37.907M	42.3M	37.848M	43.02M	37.848M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	42.3M	37.848M	42.18M	37.848M	43.02M	37.79M	43.44M	37.79M
6165MHz	Pass	Inf	42.78M	37.79M	41.46M	37.848M	41.46M	37.79M	41.4M	37.79M
6405MHz	Pass	Inf	44.22M	37.907M	41.46M	37.848M	42.36M	37.848M	45M	37.966M
6445MHz	Pass	Inf	43.32M	37.79M	41.22M	37.79M	41.64M	37.848M	42.96M	37.848M
6485MHz	Pass	Inf	45.06M	37.79M	42.18M	37.848M	42.42M	37.79M	42.3M	37.848M
6525MHz	Pass	Inf	43.26M	37.848M	41.52M	37.848M	41.16M	37.79M	42.12M	37.848M
6565MHz	Pass	Inf	42.66M	37.848M	41.82M	37.848M	41.64M	37.848M	41.46M	37.848M
6685MHz	Pass	Inf	42.84M	37.79M	41.88M	37.848M	42M	37.848M	43.14M	37.848M
6845MHz	Pass	Inf	41.82M	37.79M	41.76M	37.79M	41.7M	37.848M	43.26M	37.79M
6885MHz	Pass	Inf	43.56M	37.79M	46.86M	37.848M	41.64M	37.79M	41.58M	37.79M
6925MHz	Pass	Inf	42.06M	37.848M	46.32M	37.848M	41.16M	37.848M	44.04M	37.848M
7005MHz	Pass	Inf	43.08M	37.848M	46.5M	37.907M	41.1M	37.848M	40.86M	37.79M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
7085MHz	Pass	Inf	43.62M	37.907M	45.18M	37.907M	45.24M	37.848M	45.18M	37.907M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	82.92M	77.342M	83.4M	77.342M	83.52M	77.342M	82.56M	77.342M
6145MHz	Pass	Inf	85.8M	77.46M	85.56M	77.46M	84.12M	77.342M	84M	77.342M
6385MHz	Pass	Inf	82.8M	77.342M	84.48M	77.46M	84.24M	77.46M	84.24M	77.577M
6465MHz	Pass	Inf	83.64M	77.46M	85.2M	77.46M	84.6M	77.46M	83.4M	77.46M
6545MHz	Pass	Inf	85.56M	77.46M	84.84M	77.46M	85.2M	77.342M	84.24M	77.46M
6625MHz	Pass	Inf	82.56M	77.577M	92.16M	77.577M	82.68M	77.342M	94.44M	77.46M
6705MHz	Pass	Inf	85.44M	77.577M	85.92M	77.577M	86.16M	77.46M	90.96M	77.46M
6785MHz	Pass	Inf	86.52M	77.695M	91.32M	77.577M	84M	77.695M	90.12M	77.695M
6865MHz	Pass	Inf	86.52M	77.46M	85.8M	77.46M	85.56M	77.46M	87.84M	77.46M
6945MHz	Pass	Inf	85.68M	77.342M	82.68M	77.577M	83.76M	77.46M	83.28M	77.46M
7025MHz	Pass	Inf	84M	77.46M	84.36M	77.577M	86.76M	77.577M	84.48M	77.577M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	83.76M	77.342M	82.68M	77.342M	83.04M	77.46M	85.44M	77.225M
6145MHz	Pass	Inf	84.24M	77.342M	82.32M	77.46M	81.72M	77.342M	84.36M	77.225M
6385MHz	Pass	Inf	86.52M	77.342M	82.08M	77.46M	82.08M	77.46M	84.12M	77.46M
6465MHz	Pass	Inf	84.12M	77.46M	84.36M	77.342M	84.48M	77.342M	84.84M	77.46M
6545MHz	Pass	Inf	84.84M	77.46M	82.92M	77.46M	82.56M	77.342M	84.6M	77.342M
6625MHz	Pass	Inf	84.36M	77.577M	84.12M	77.46M	84.48M	77.46M	84.48M	77.342M
6705MHz	Pass	Inf	84.36M	77.46M	84.48M	77.46M	84.12M	77.46M	84.36M	77.342M
6785MHz	Pass	Inf	85.56M	77.577M	82.56M	77.577M	84.72M	77.577M	85.08M	77.577M
6865MHz	Pass	Inf	84M	77.342M	82.08M	77.225M	81.72M	77.46M	84.48M	77.46M
6945MHz	Pass	Inf	84.72M	77.46M	84.24M	77.46M	86.64M	77.577M	84.48M	77.46M
7025MHz	Pass	Inf	96.24M	77.577M	94.44M	77.577M	83.88M	77.46M	85.44M	77.46M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	212.16M	156.8M	166.8M	156.565M	166.8M	156.33M	167.28M	156.565M
6185MHz	Pass	Inf	167.76M	156.33M	167.52M	156.8M	166.8M	156.565M	167.28M	156.8M
6345MHz	Pass	Inf	165.84M	156.33M	167.04M	156.33M	167.04M	156.8M	166.32M	156.33M
6505MHz	Pass	Inf	167.04M	156.565M	166.32M	156.33M	166.8M	156.33M	167.04M	156.33M
6665MHz	Pass	Inf	166.56M	156.33M	166.56M	156.33M	167.76M	156.095M	166.8M	156.33M
6825MHz	Pass	Inf	166.08M	156.8M	166.32M	156.8M	167.04M	156.33M	166.8M	156.8M
6985MHz	Pass	Inf	168.72M	156.8M	170.88M	156.8M	166.8M	156.8M	167.28M	156.565M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	265.2M	157.035M	218.16M	156.565M	263.28M	156.8M	239.04M	156.8M
6185MHz	Pass	Inf	243.84M	157.035M	198.96M	156.8M	190.56M	156.8M	242.4M	157.035M
6345MHz	Pass	Inf	166.8M	156.33M	166.8M	156.33M	186.96M	156.565M	167.04M	156.33M
6505MHz	Pass	Inf	166.32M	156.33M	171.6M	156.33M	167.04M	156.33M	167.28M	156.33M
6665MHz	Pass	Inf	242.64M	156.8M	248.16M	157.035M	244.8M	156.8M	243.6M	156.8M
6825MHz	Pass	Inf	276M	157.27M	284.88M	157.74M	264.96M	157.035M	265.92M	157.505M
6985MHz	Pass	Inf	278.16M	157.27M	269.76M	157.27M	244.08M	157.27M	244.56M	157.27M

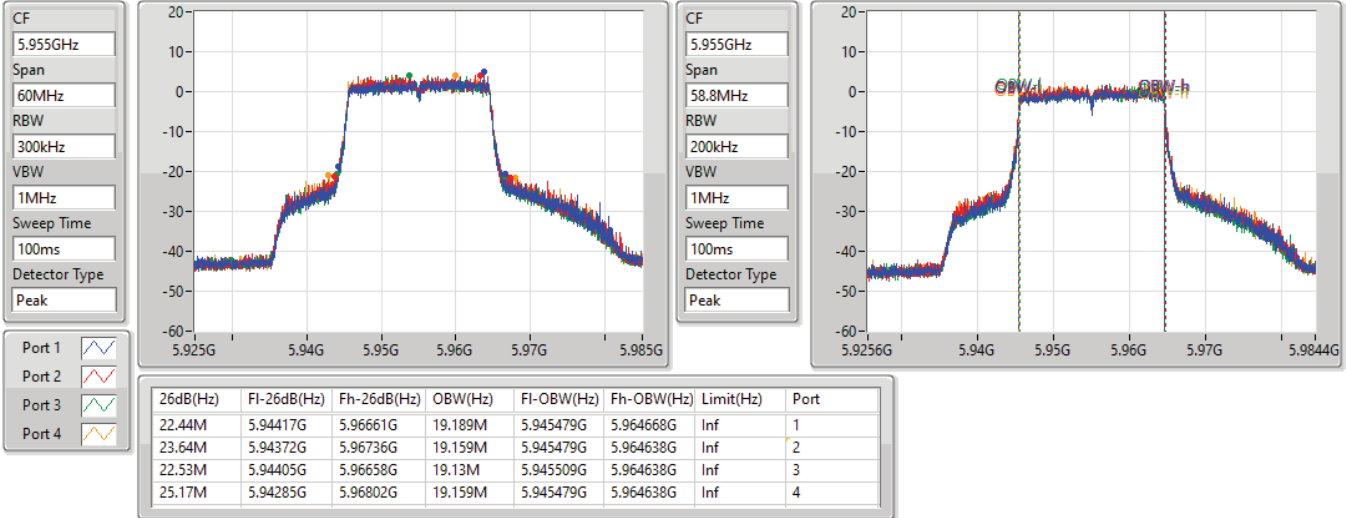
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5955MHz

30/09/2022

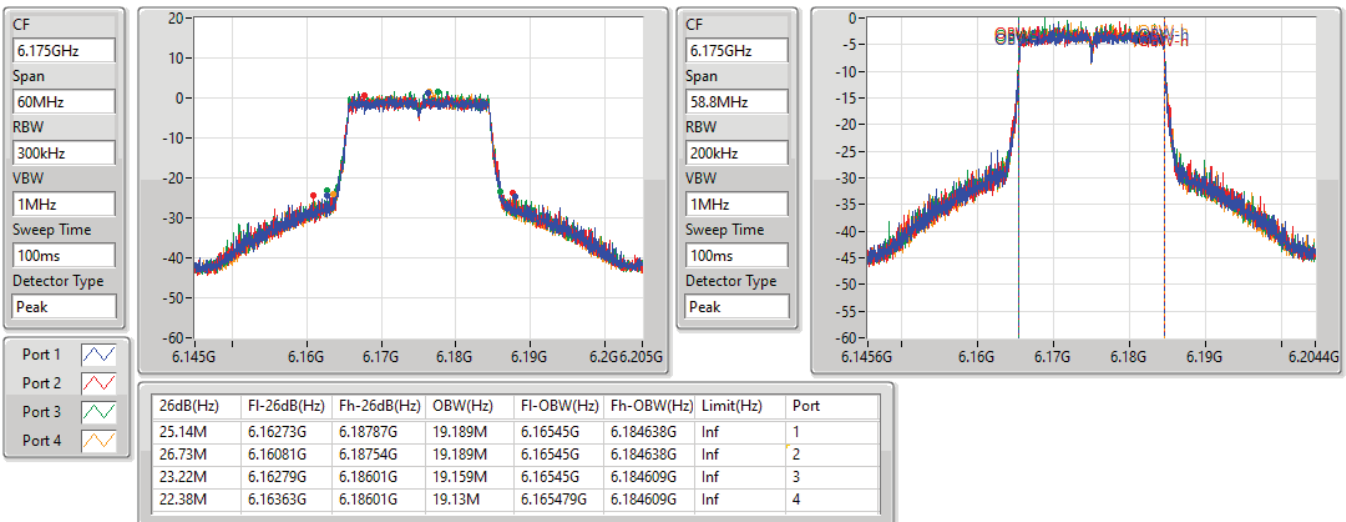


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

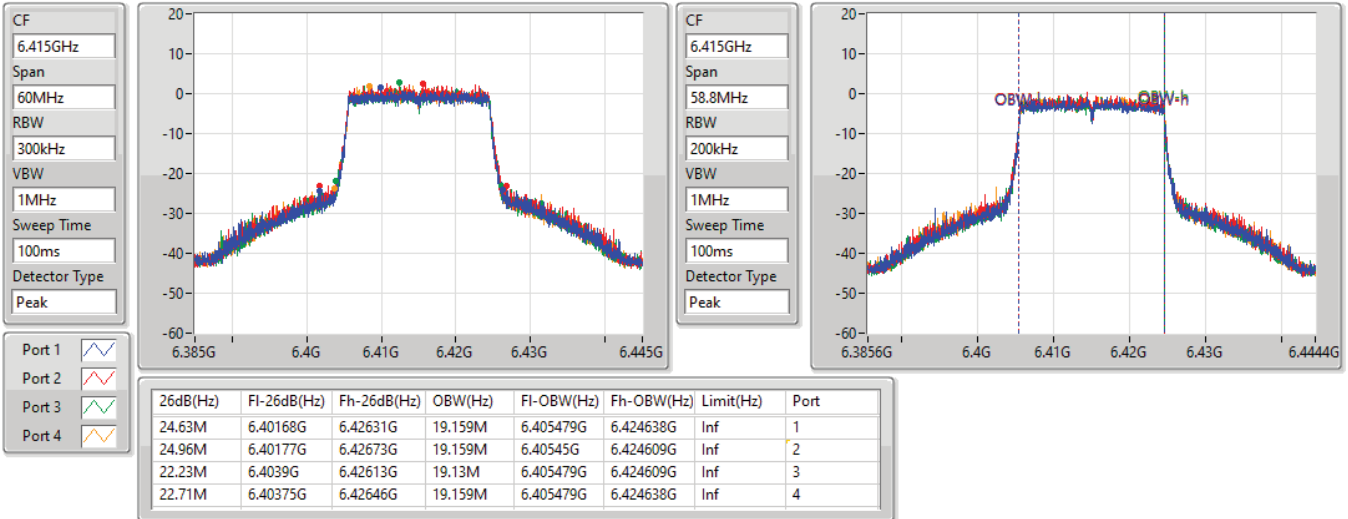
6175MHz

30/09/2022

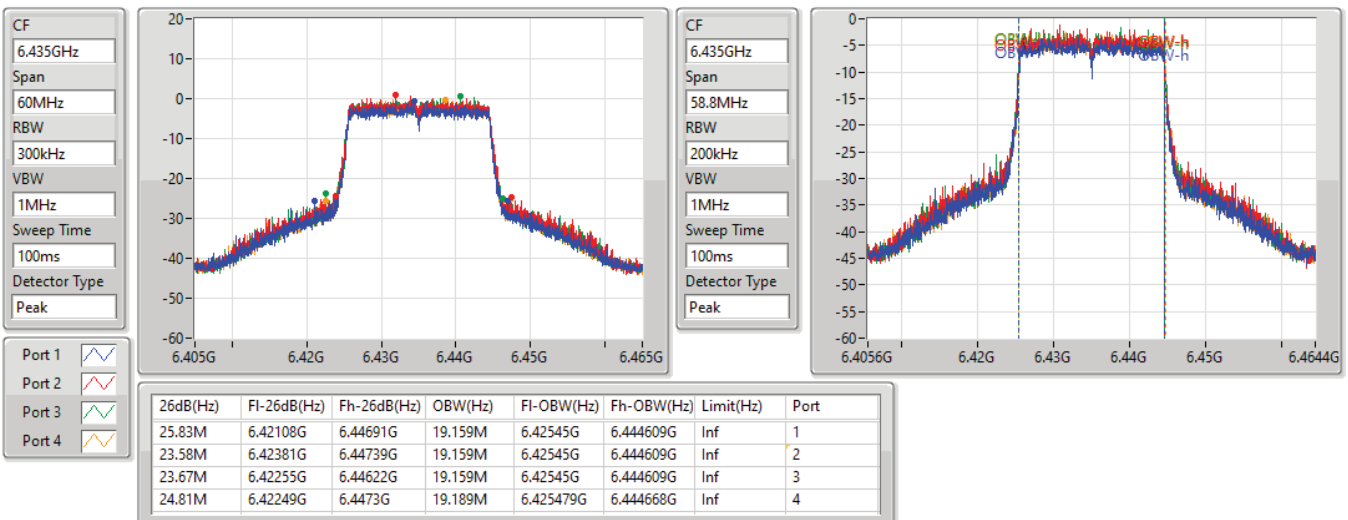


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
6415MHz

30/09/2022


6.425-6.525GHz_802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
6435MHz

30/09/2022

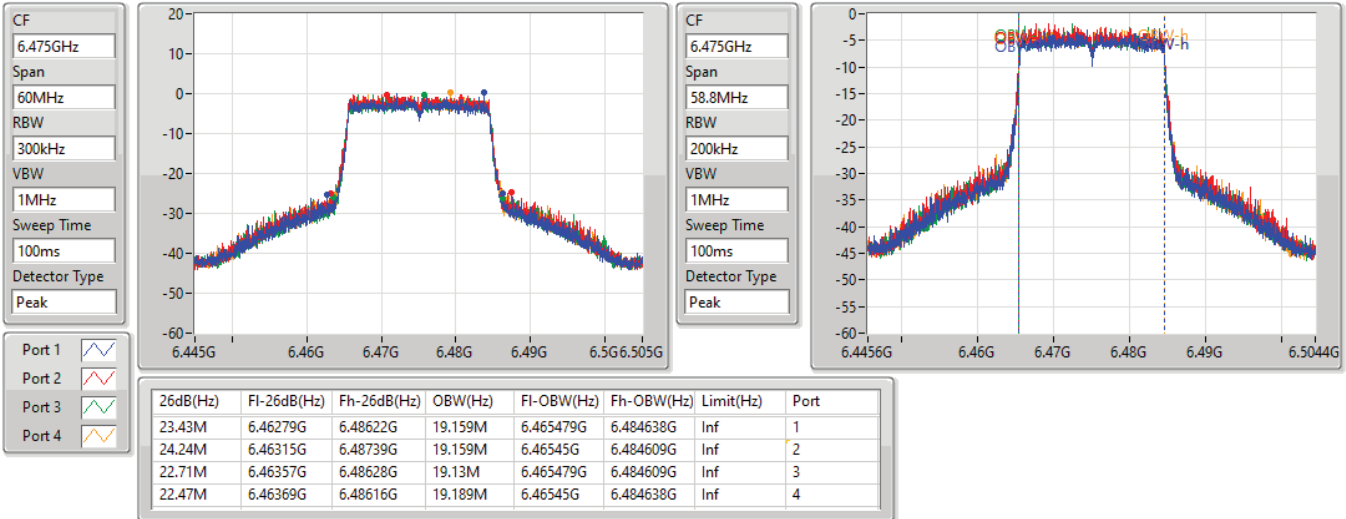


6.425-6.525GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6475MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6515MHz

30/09/2022

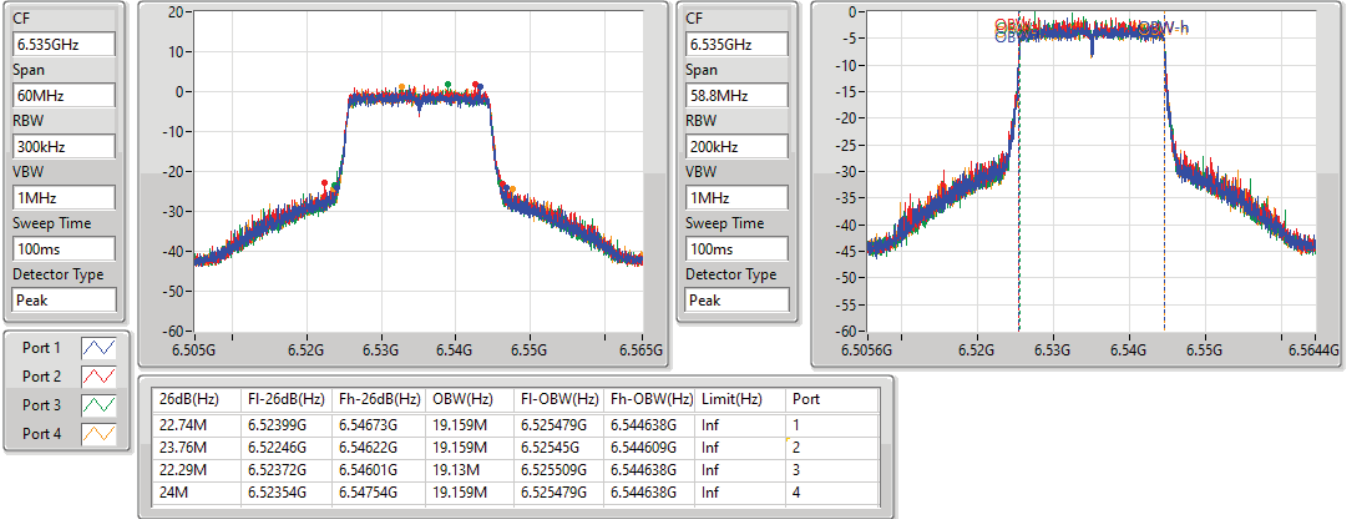


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6535MHz

30/09/2022

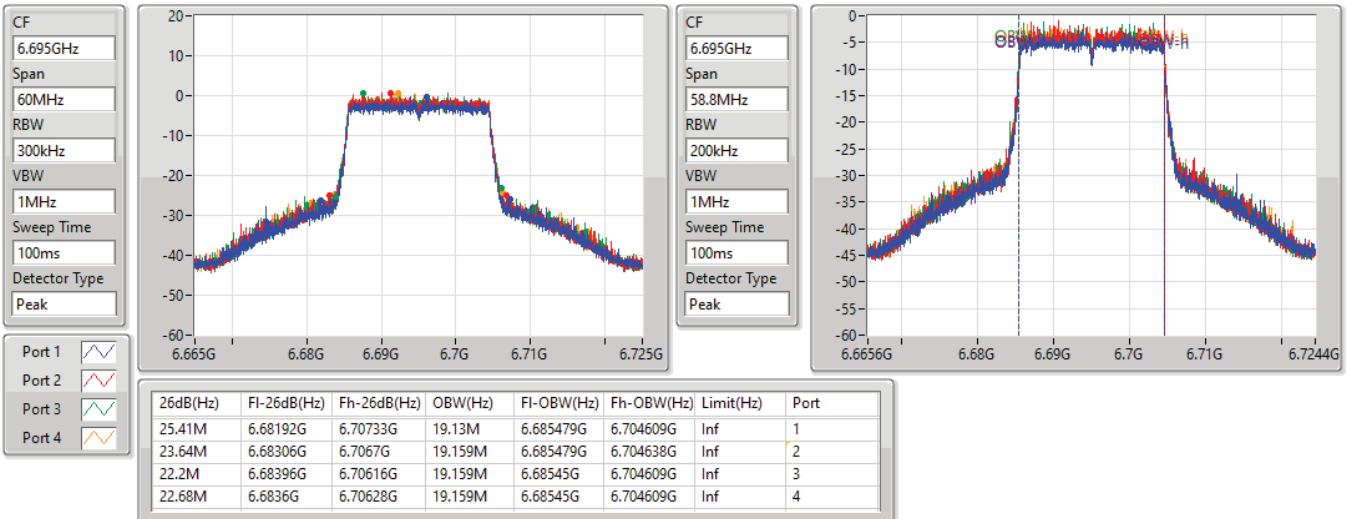


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6695MHz

30/09/2022

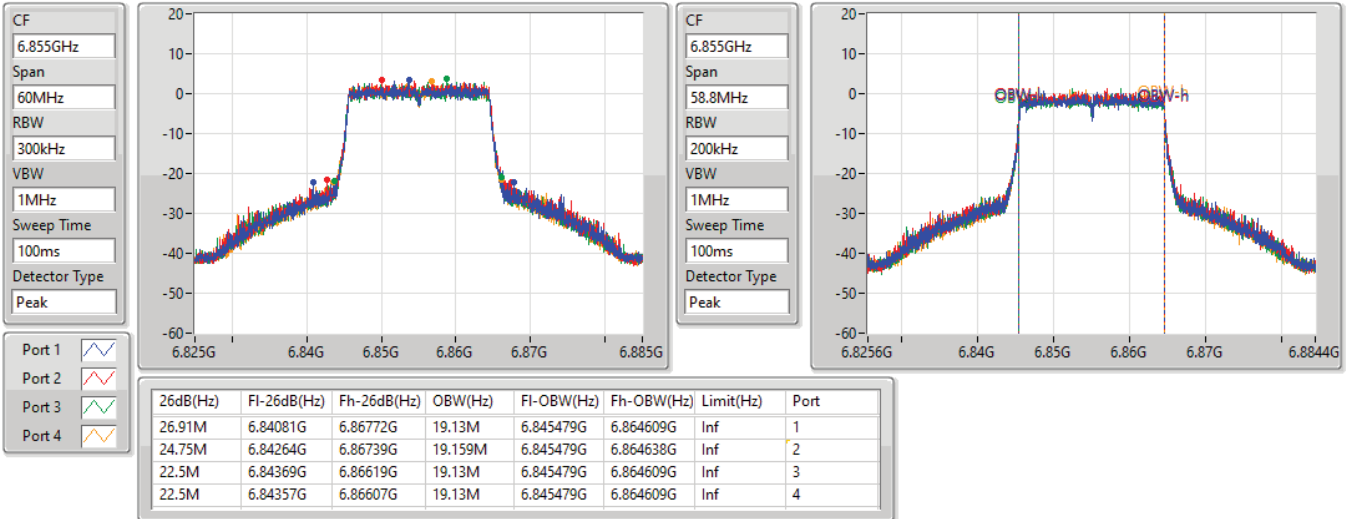


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6855MHz

30/09/2022

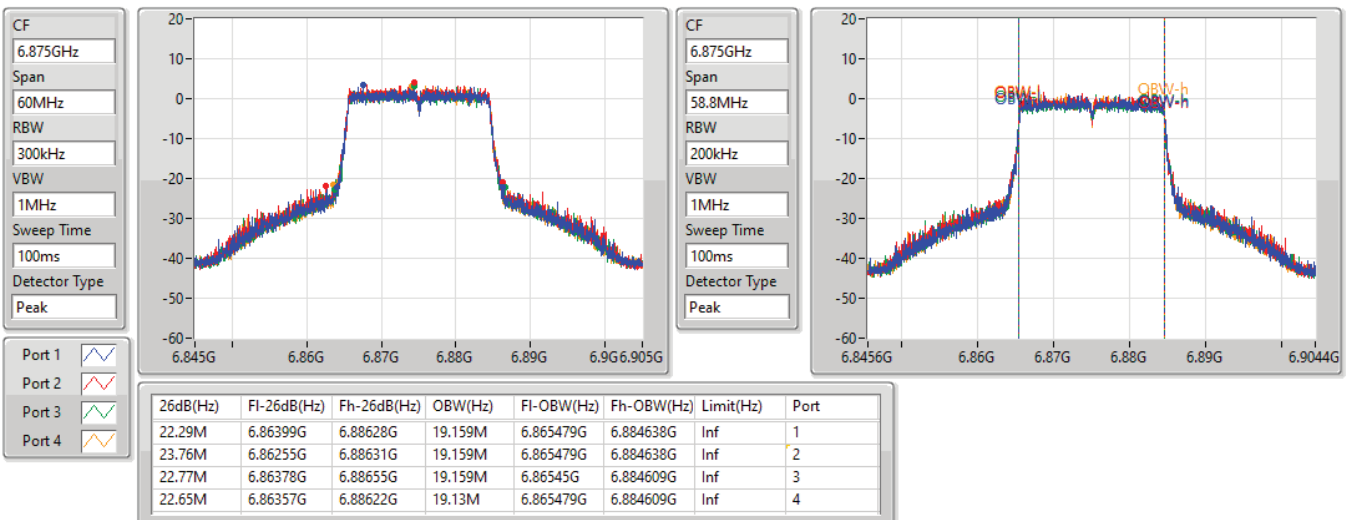


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6875MHz

30/09/2022

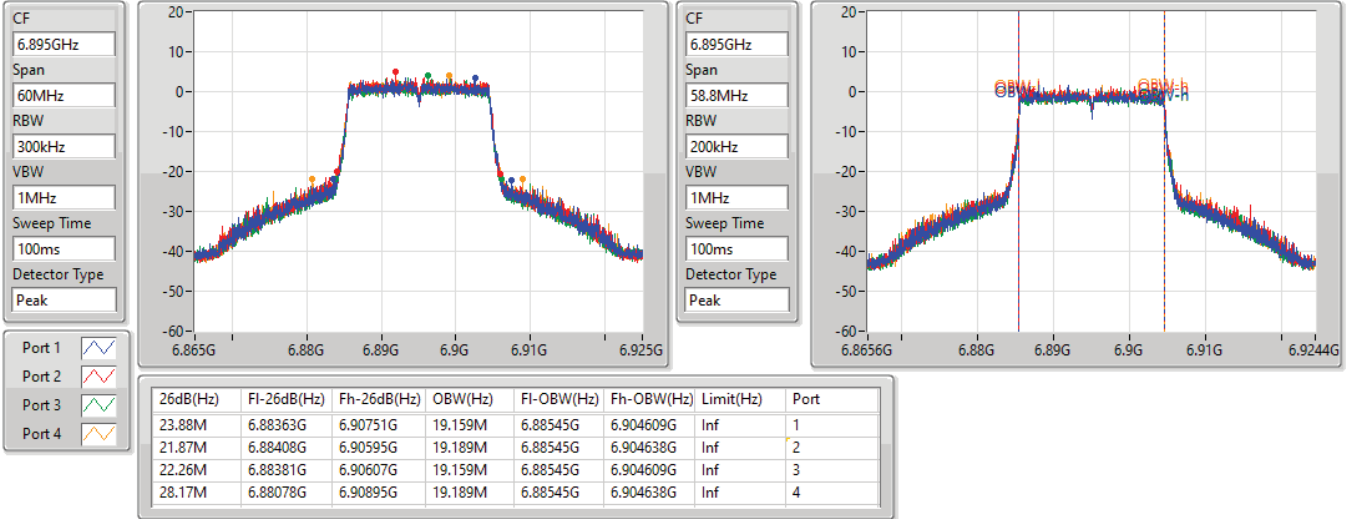


6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6895MHz

30/09/2022

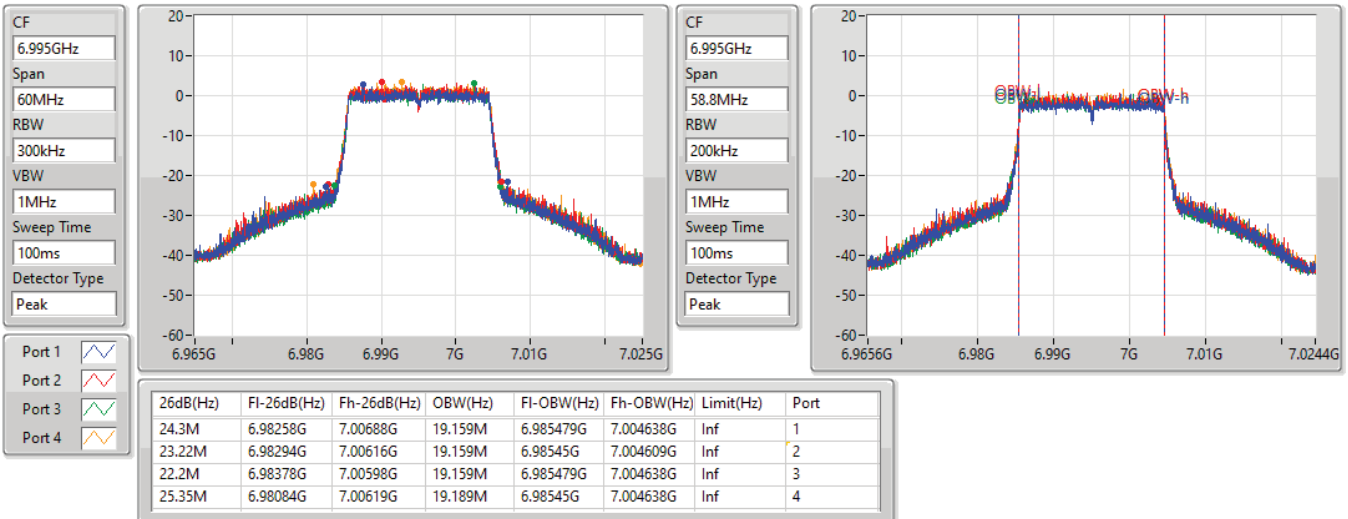


6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

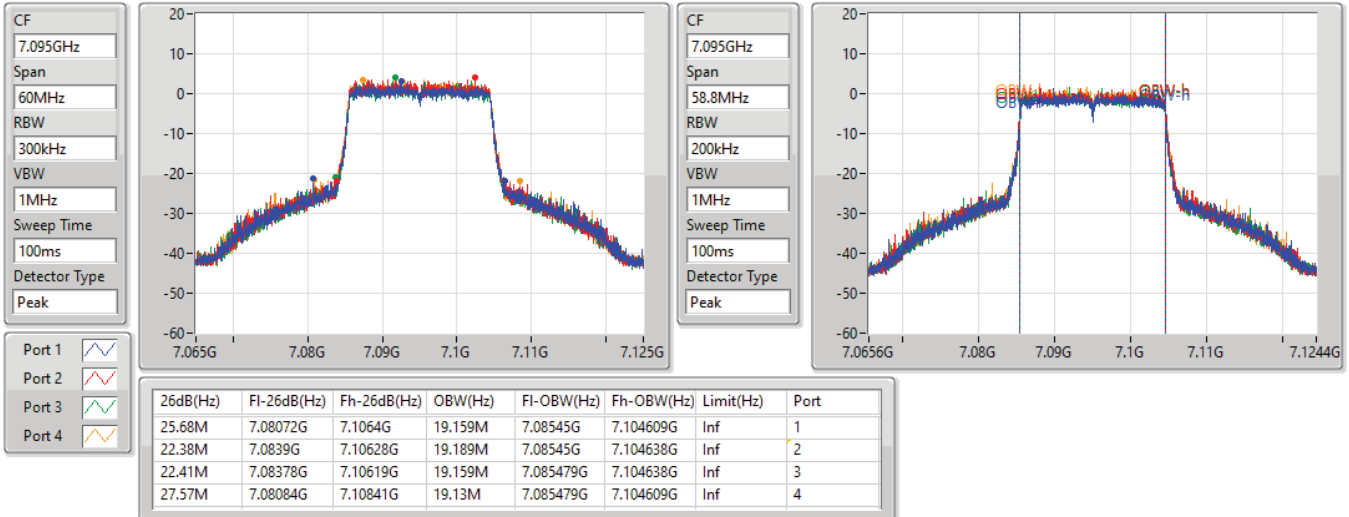
6995MHz

30/09/2022

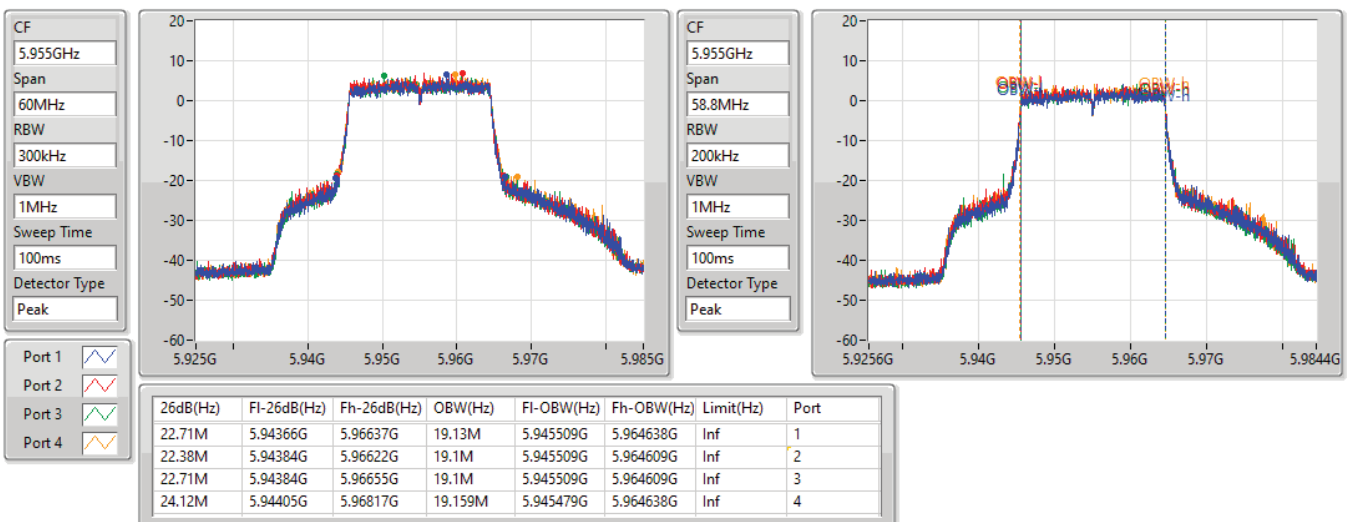


6.875-7.125GHz_802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
7095MHz

30/09/2022


5.925-6.425GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5955MHz

30/09/2022

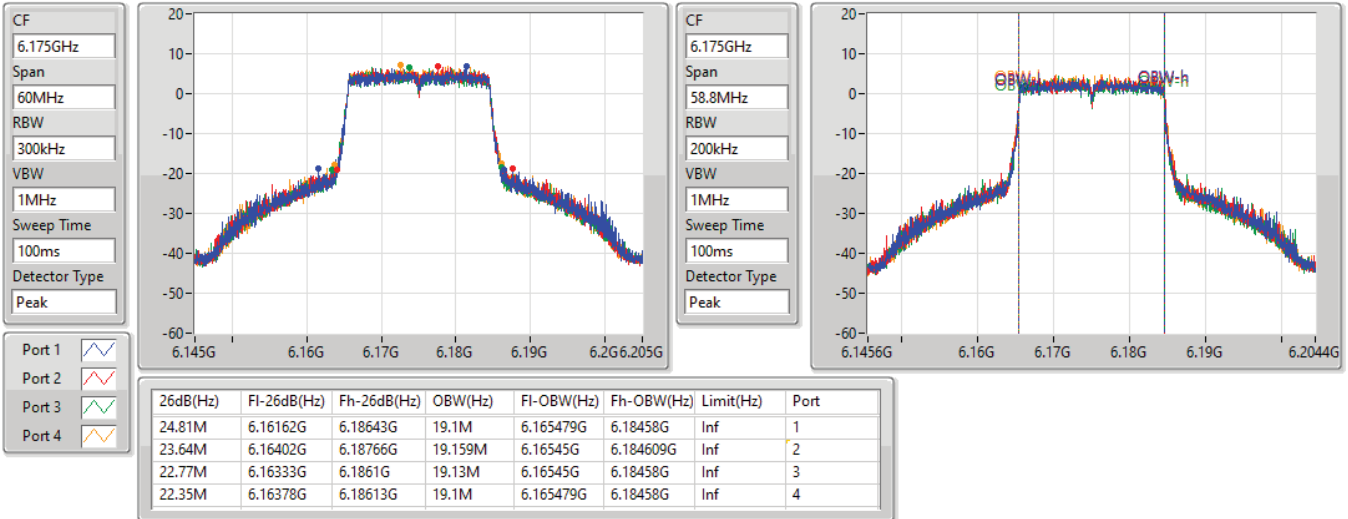


5.925-6.425GHz_802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

6175MHz

30/09/2022



5.925-6.425GHz_802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

6415MHz

30/09/2022

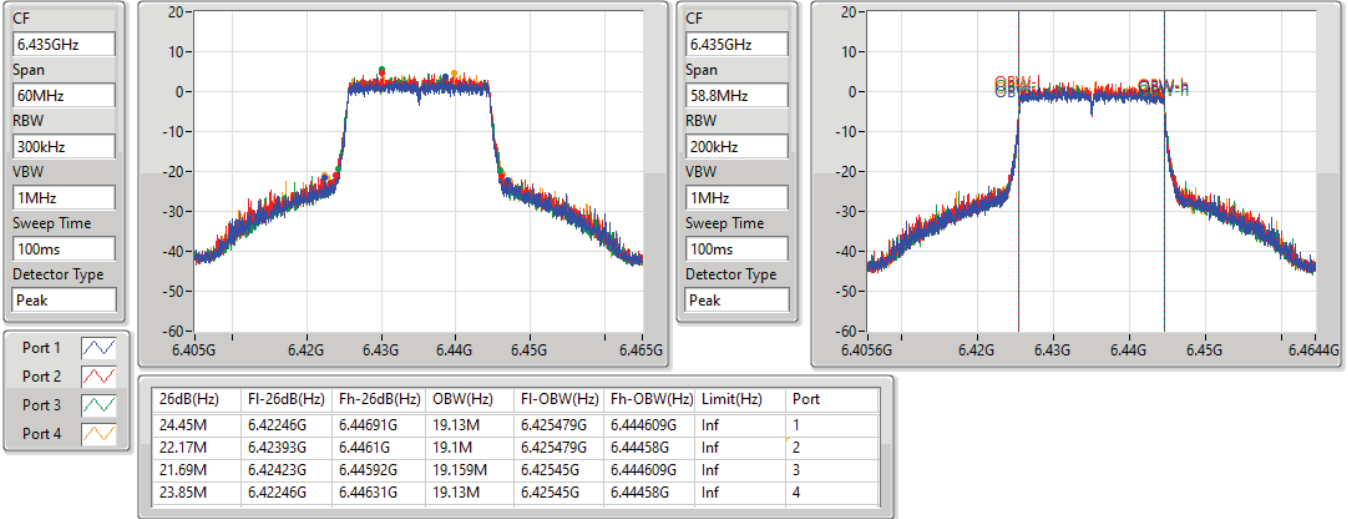


6.425-6.525GHz_802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

6435MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

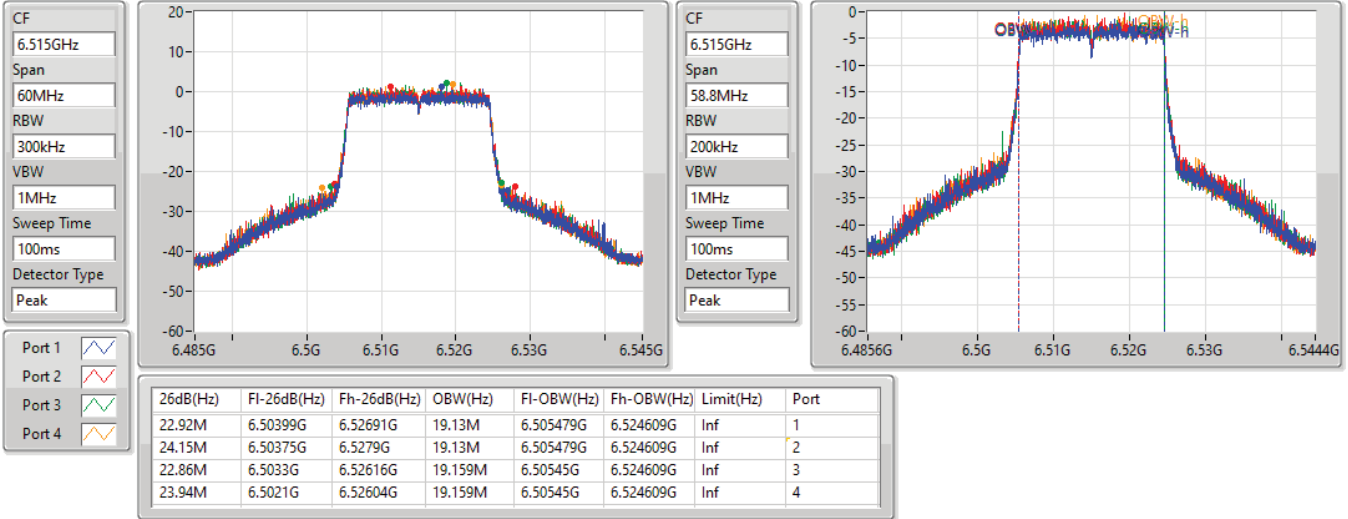
6475MHz

30/09/2022

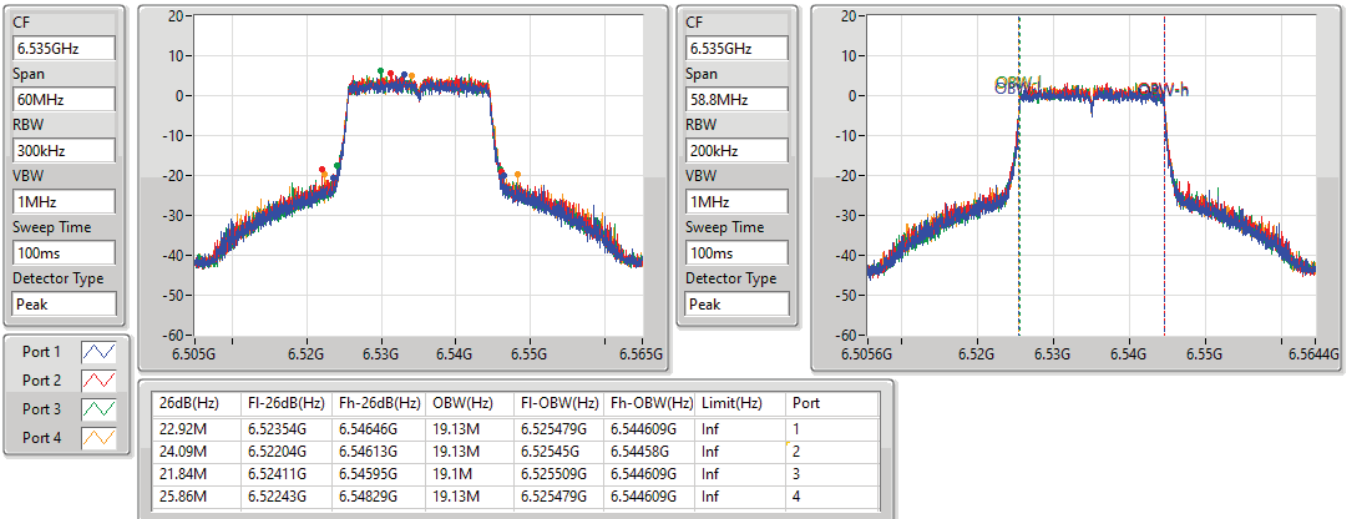


6.425-6.525GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6515MHz

30/09/2022

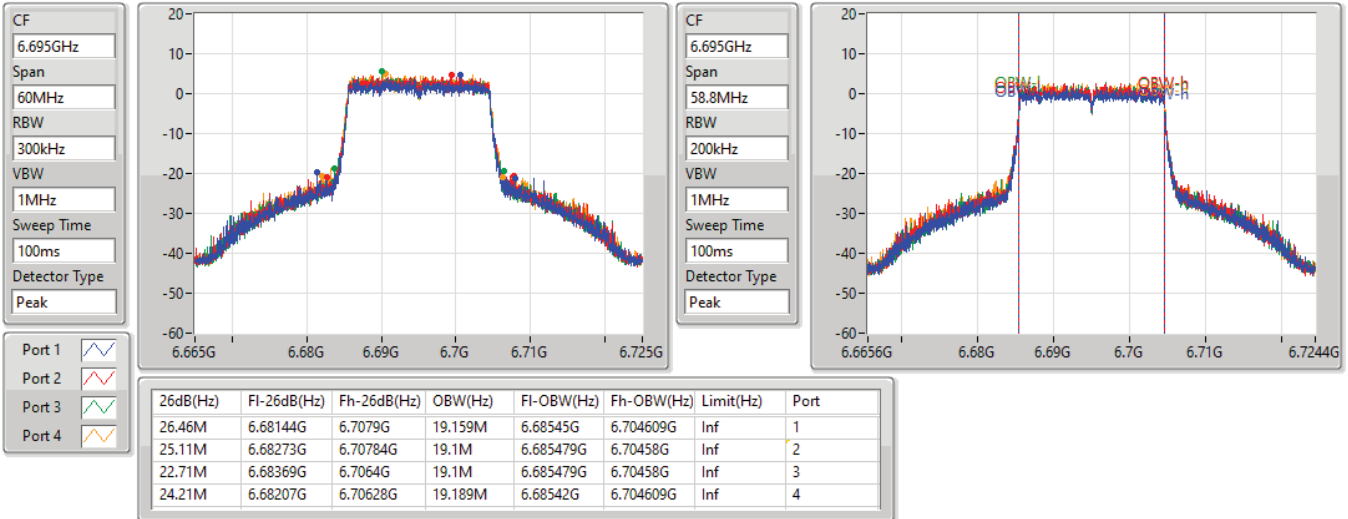

6.525-6.875GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6535MHz

30/09/2022

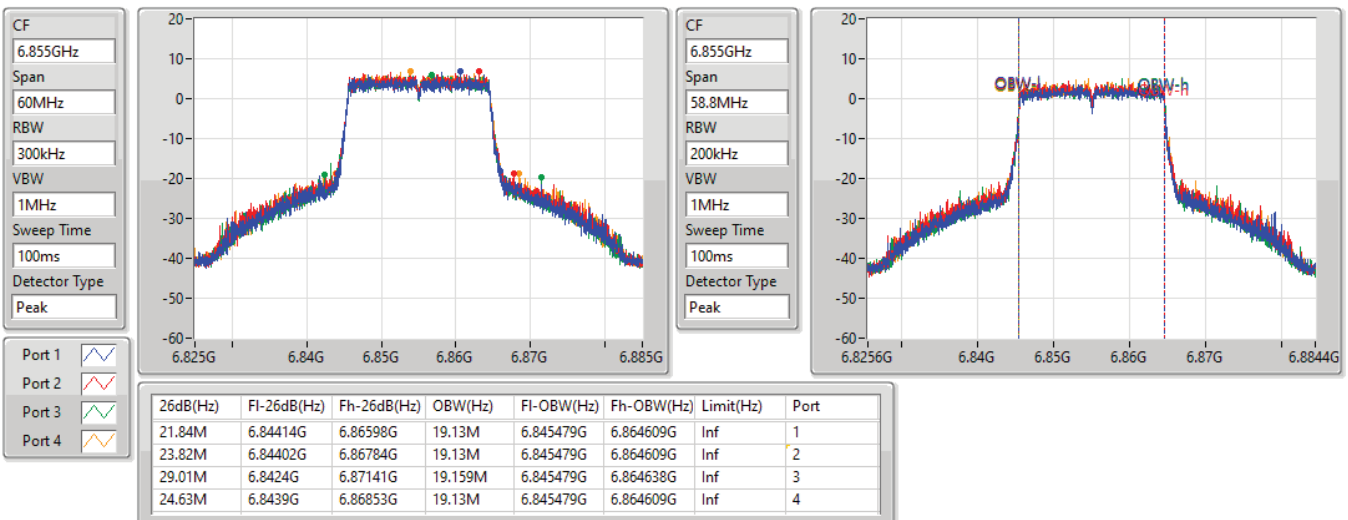


6.525-6.875GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6695MHz

30/09/2022

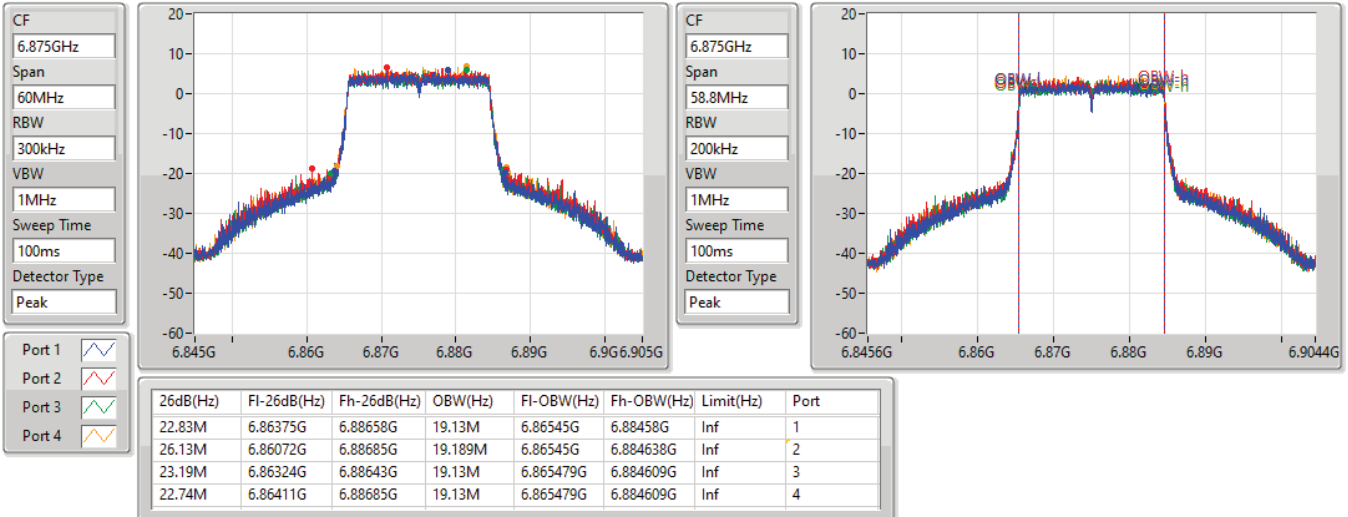

6.525-6.875GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6855MHz

30/09/2022

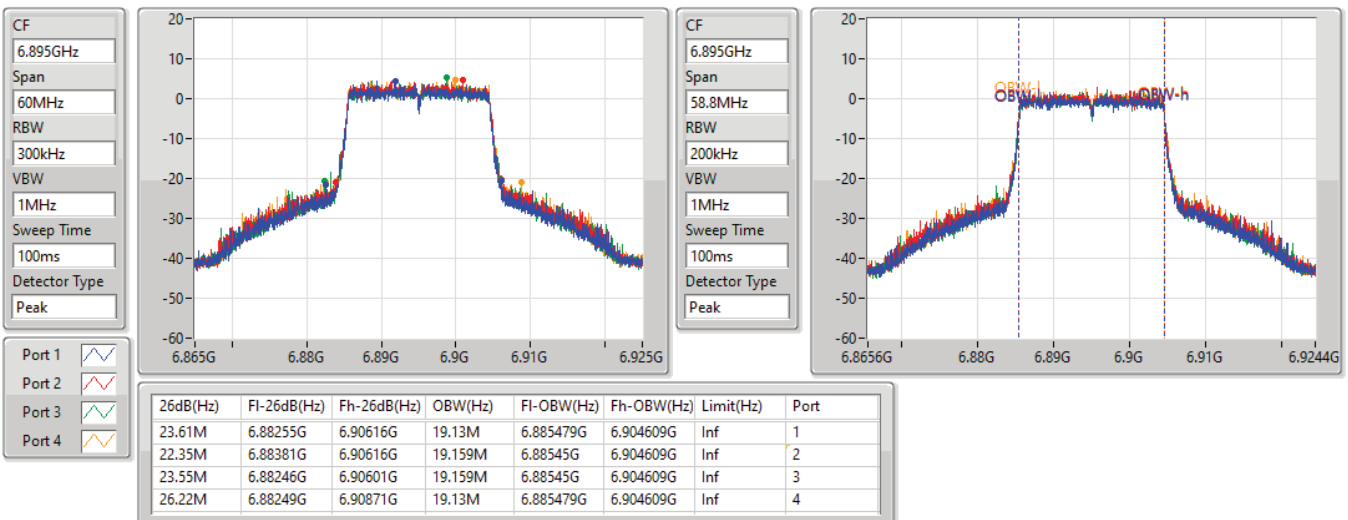


6.525-6.875GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6875MHz

30/09/2022

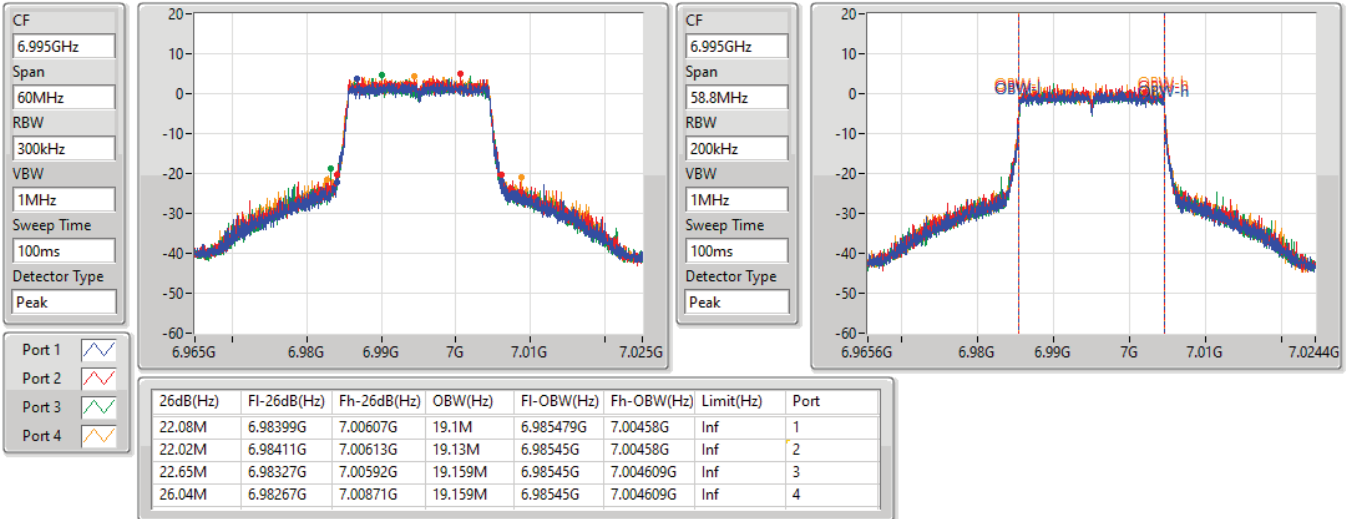

6.875-7.125GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6895MHz

30/09/2022

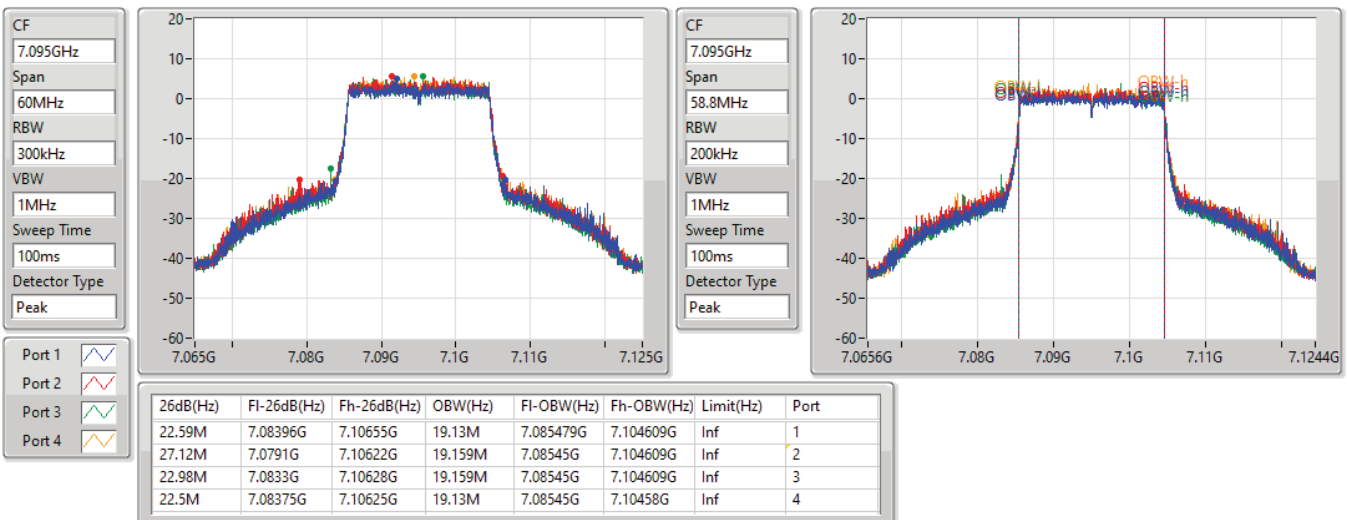


6.875-7.125GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
6995MHz

30/09/2022


6.875-7.125GHz_802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
7095MHz

30/09/2022

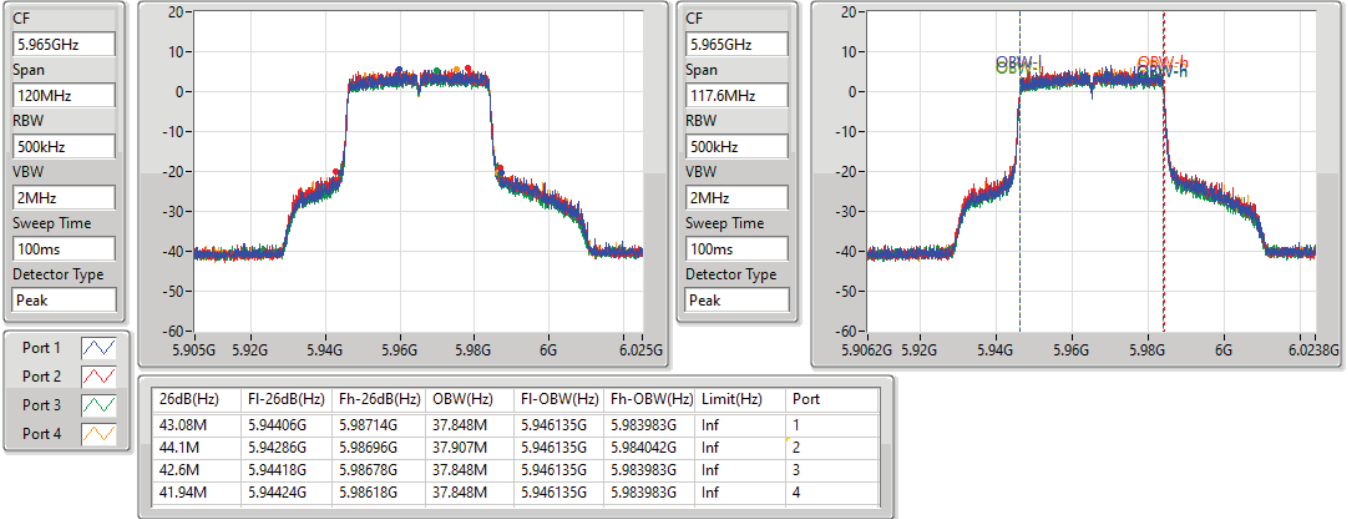


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5965MHz

30/09/2022



5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6165MHz

30/09/2022

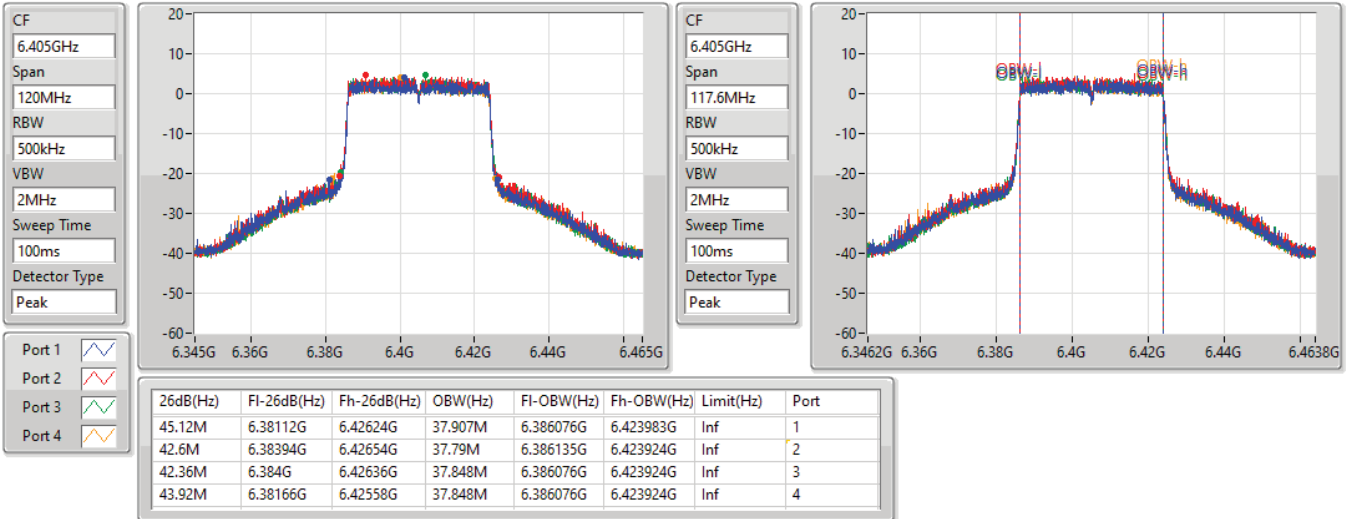


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6405MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6445MHz

30/09/2022

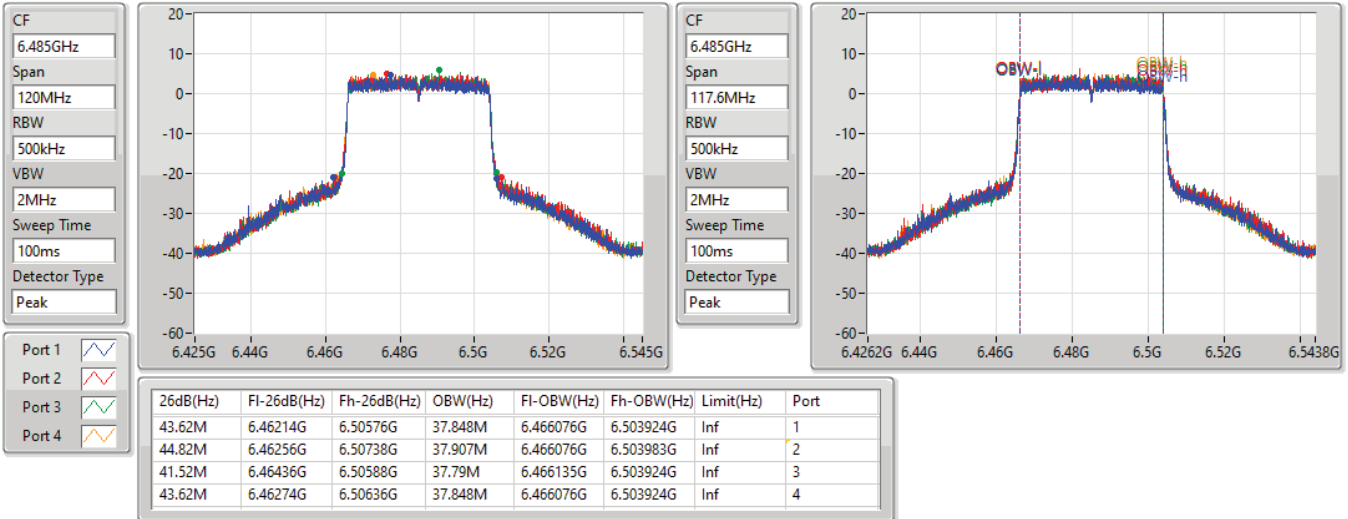


6.425-6.525GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6485MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6525MHz

30/09/2022

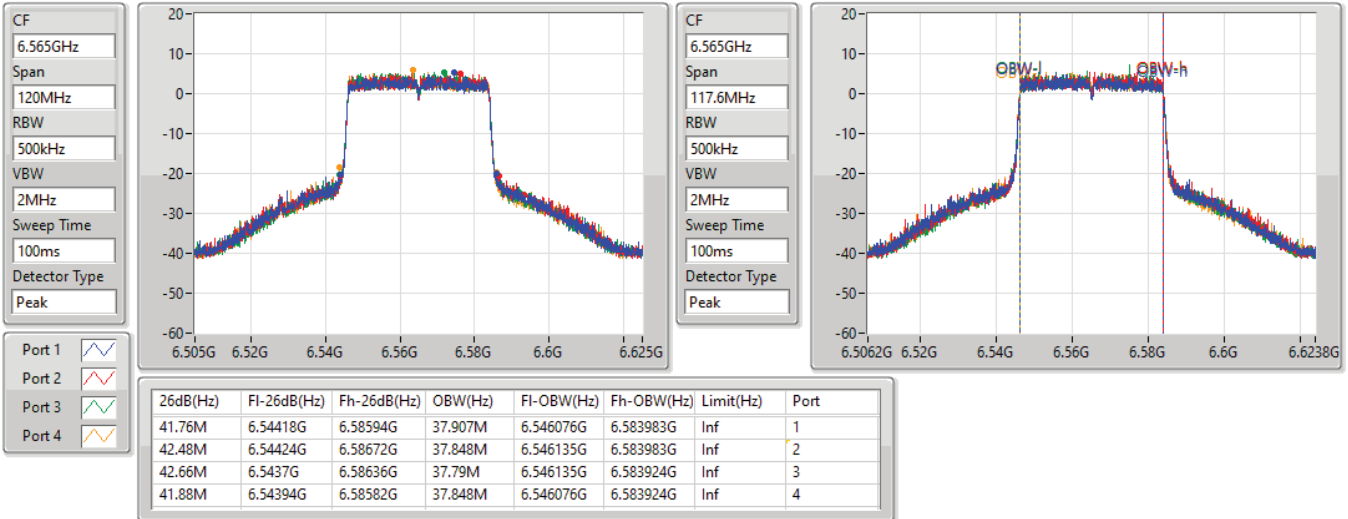


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6565MHz

30/09/2022



6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6685MHz

30/09/2022

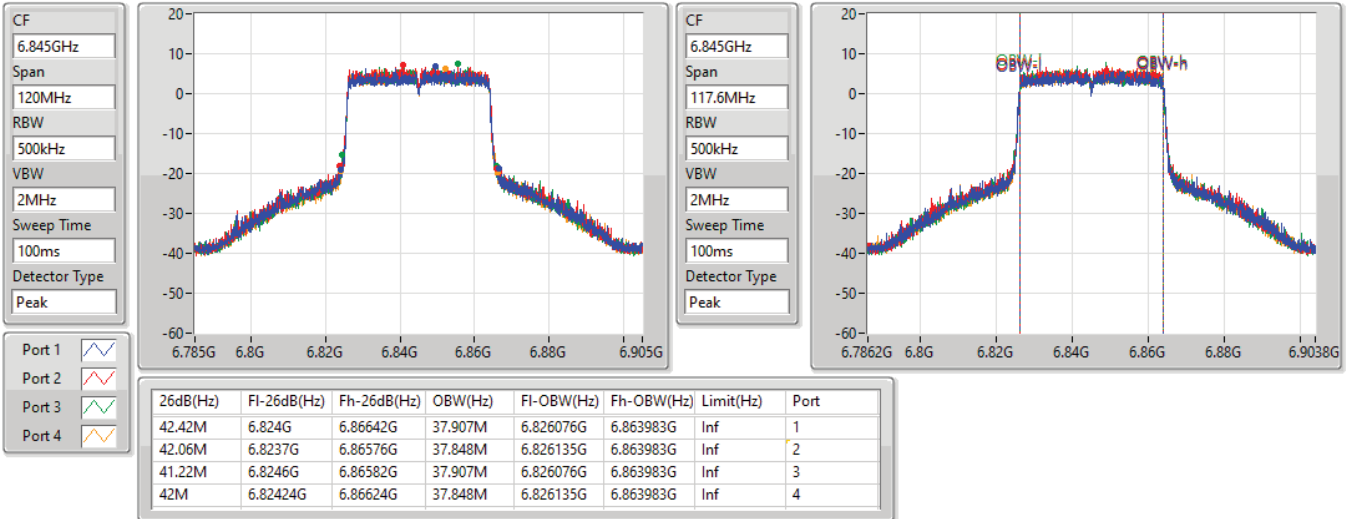


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6845MHz

30/09/2022

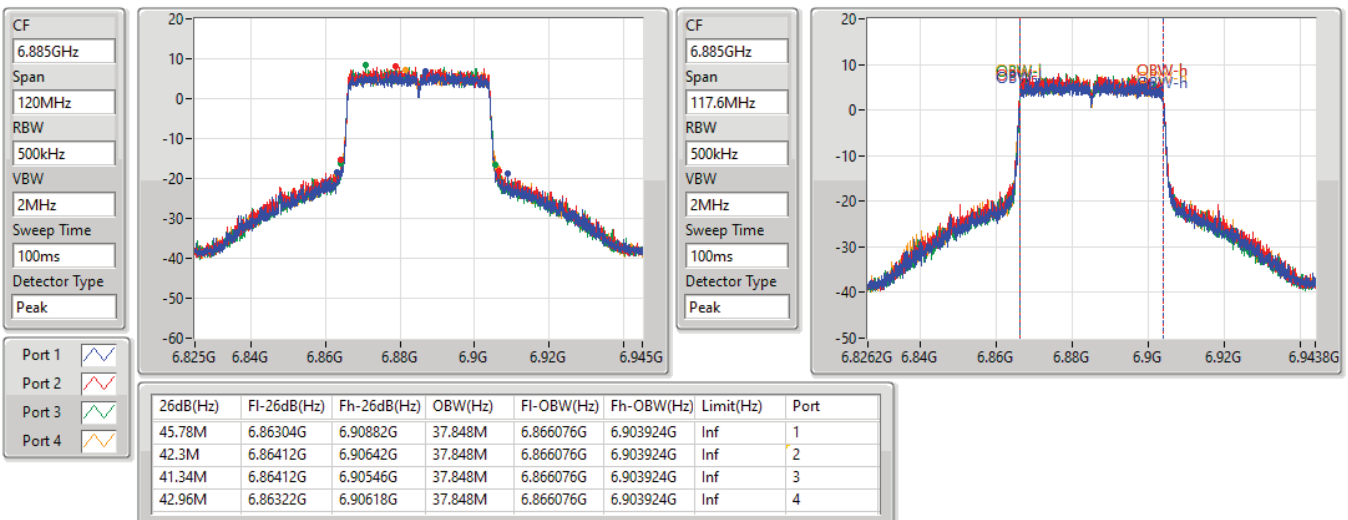


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6885MHz

30/09/2022

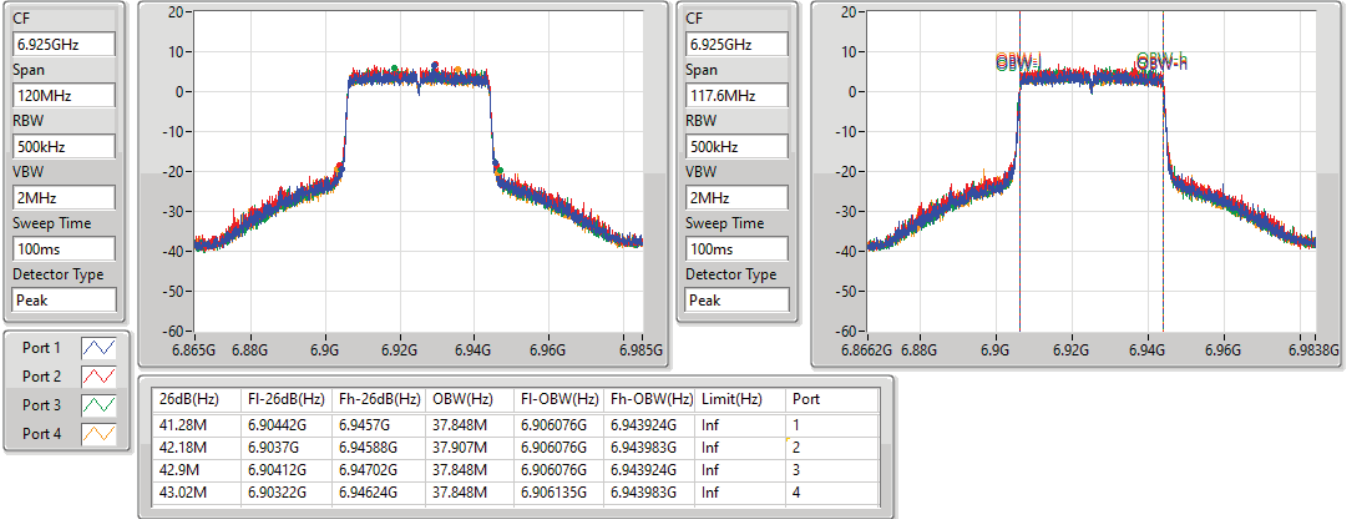


6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6925MHz

30/09/2022

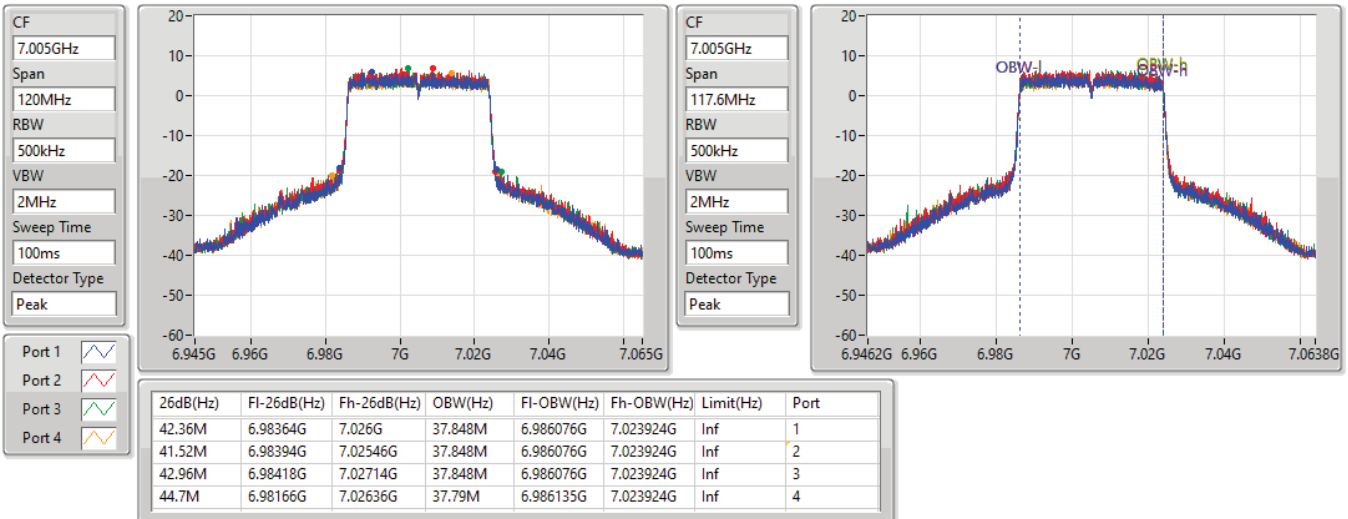


6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

7005MHz

30/09/2022

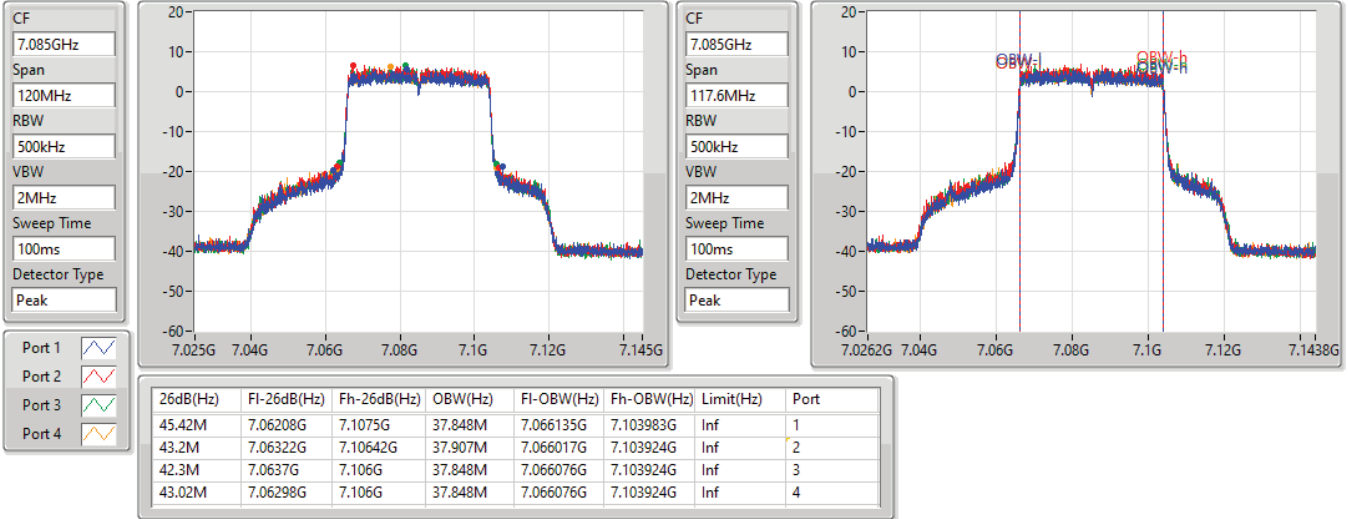


6.875-7.125GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

7085MHz

30/09/2022

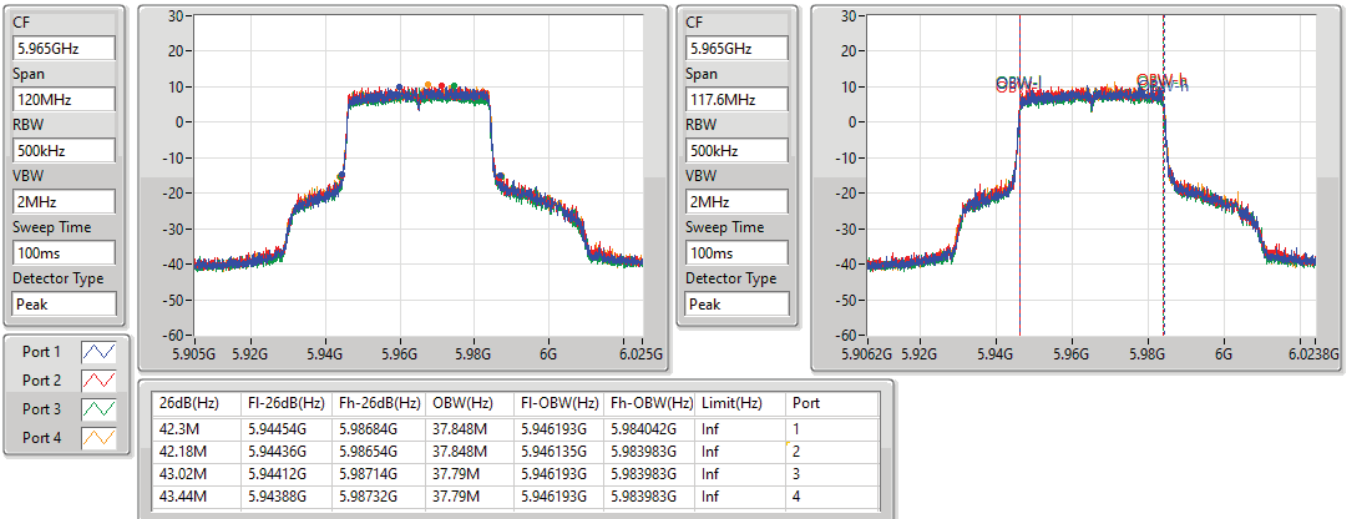


5.925-6.425GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5965MHz

30/09/2022

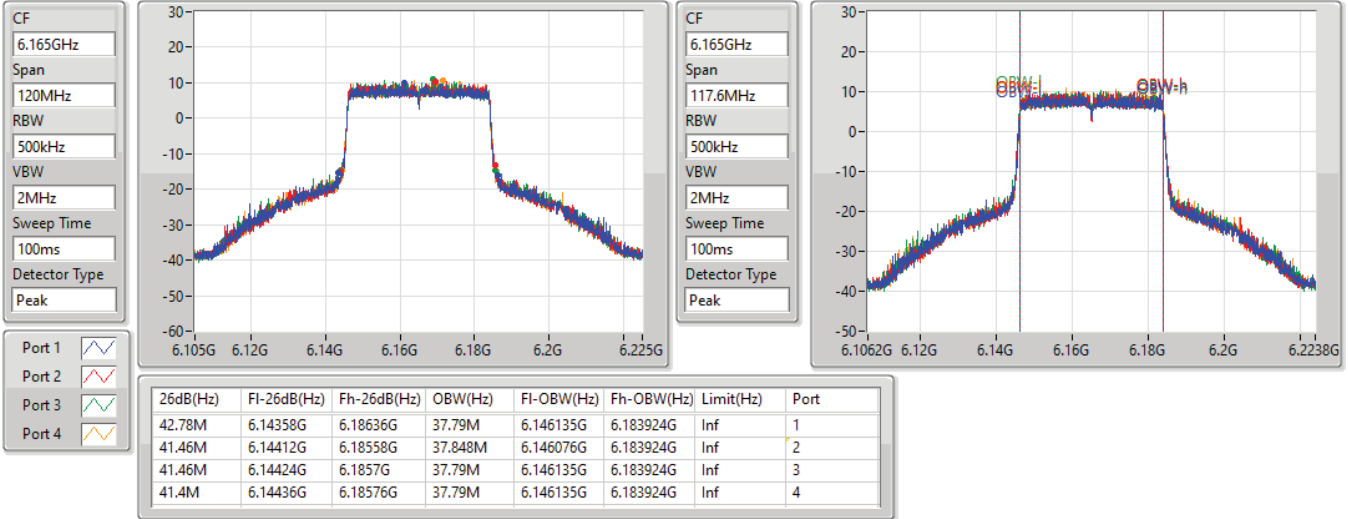


5.925-6.425GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6165MHz

30/09/2022



5.925-6.425GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6405MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6445MHz

30/09/2022

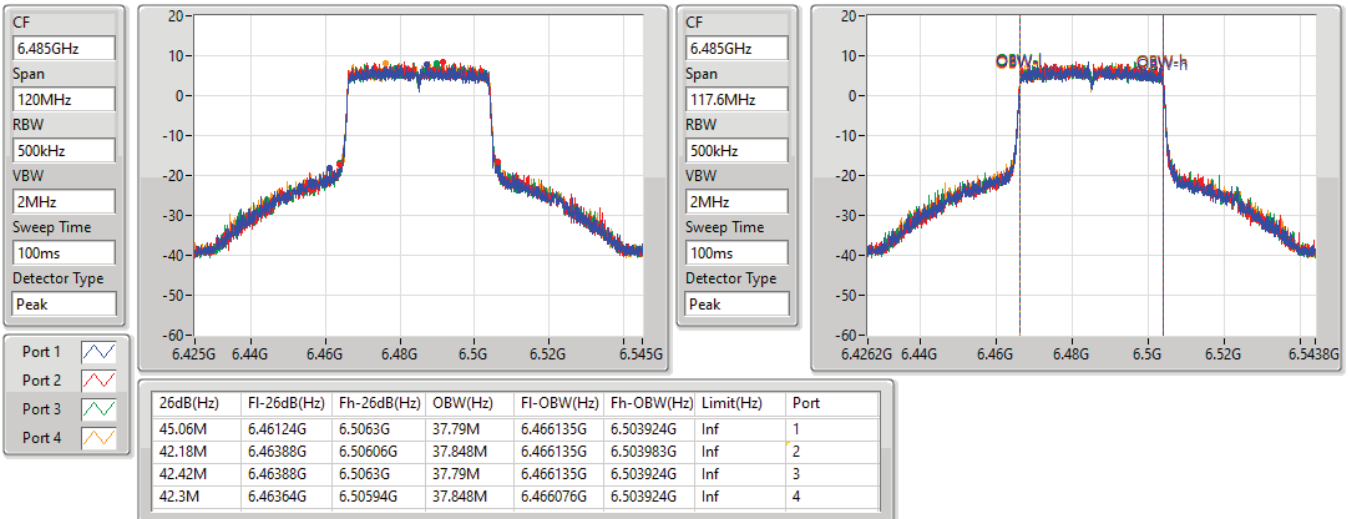


6.425-6.525GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6485MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6525MHz

30/09/2022

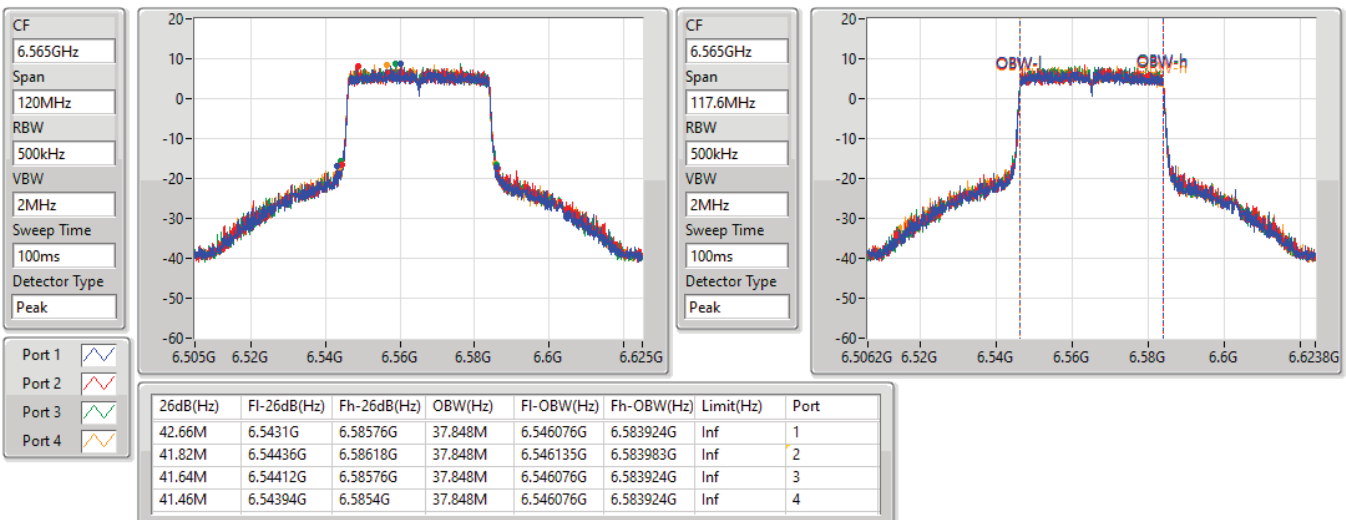


6.525-6.875GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6565MHz

30/09/2022



6.525-6.875GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6685MHz

30/09/2022

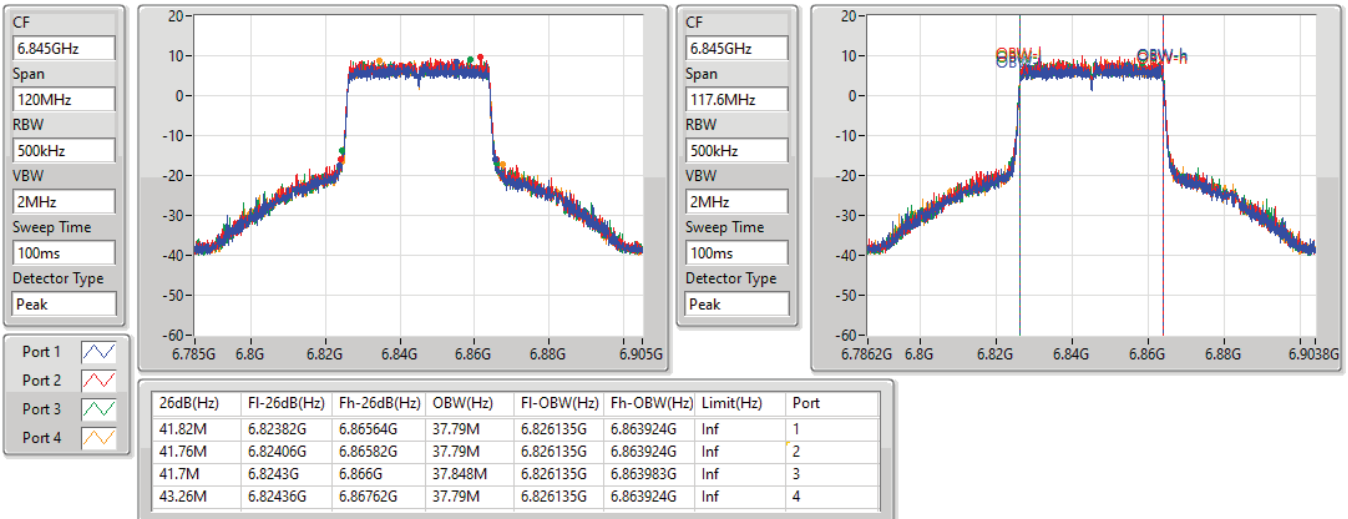


6.525-6.875GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6845MHz

30/09/2022

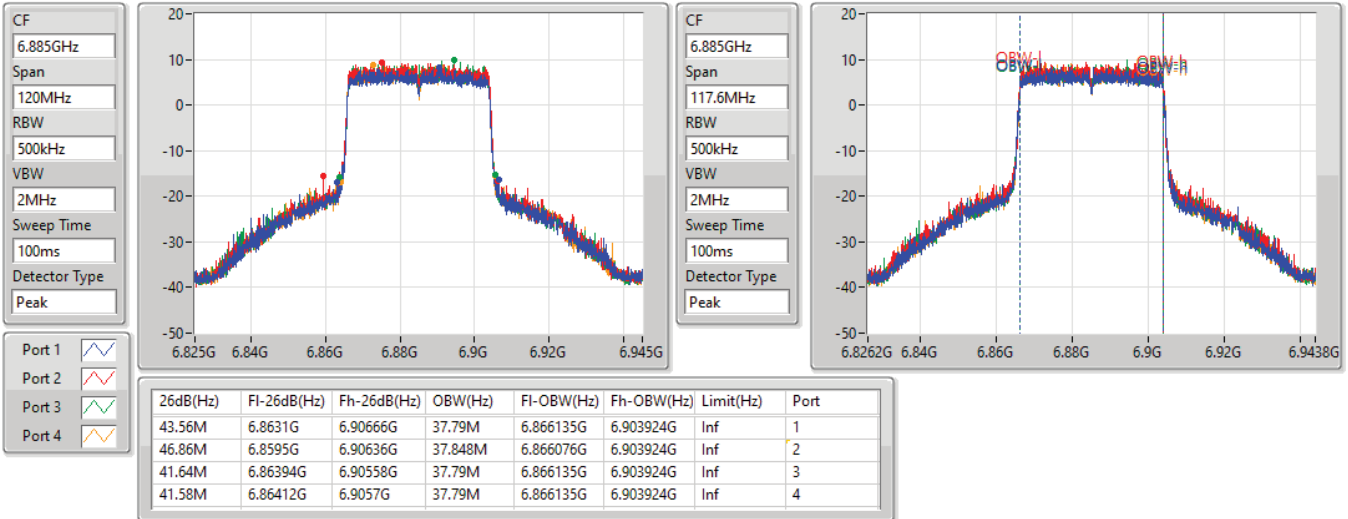


6.525-6.875GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6885MHz

30/09/2022



6.875-7.125GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

6925MHz

30/09/2022

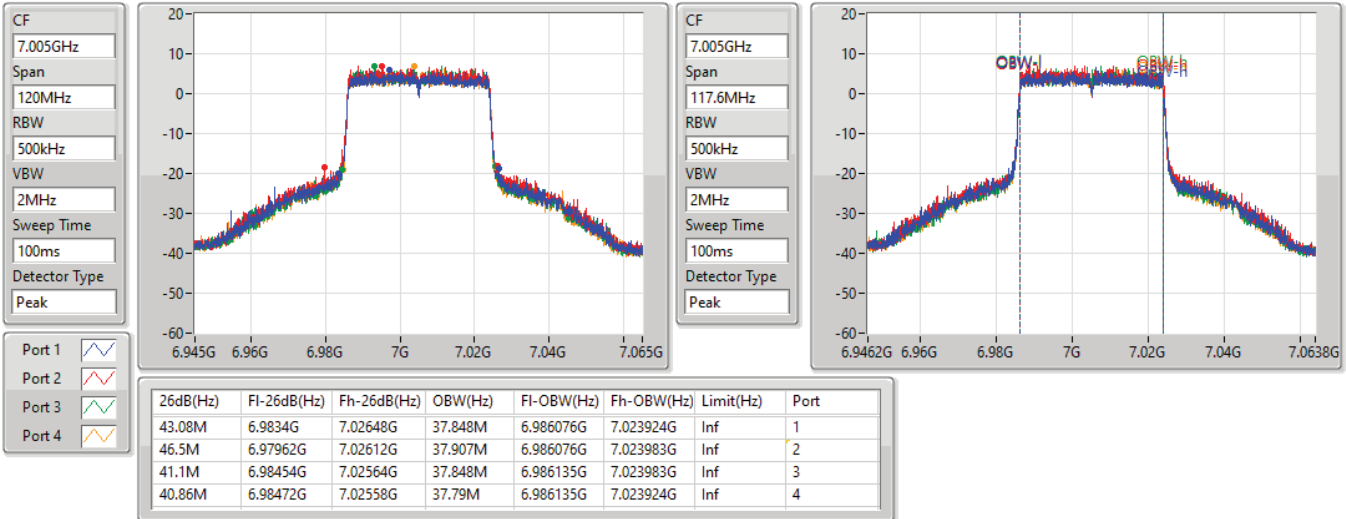


6.875-7.125GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

7005MHz

30/09/2022

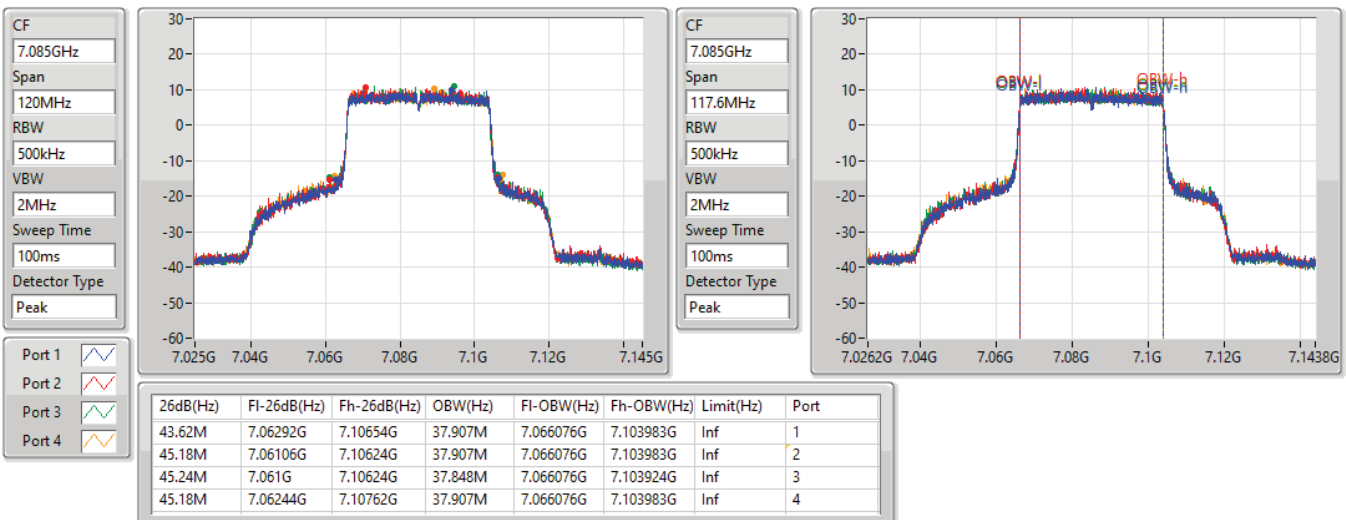


6.875-7.125GHz_802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

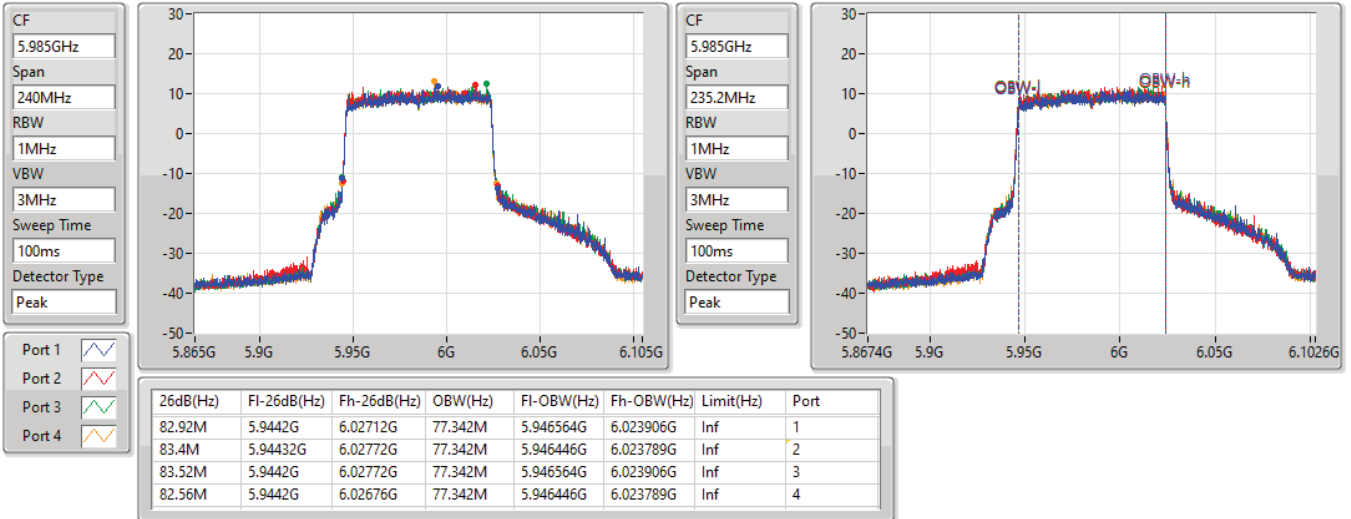
7085MHz

30/09/2022

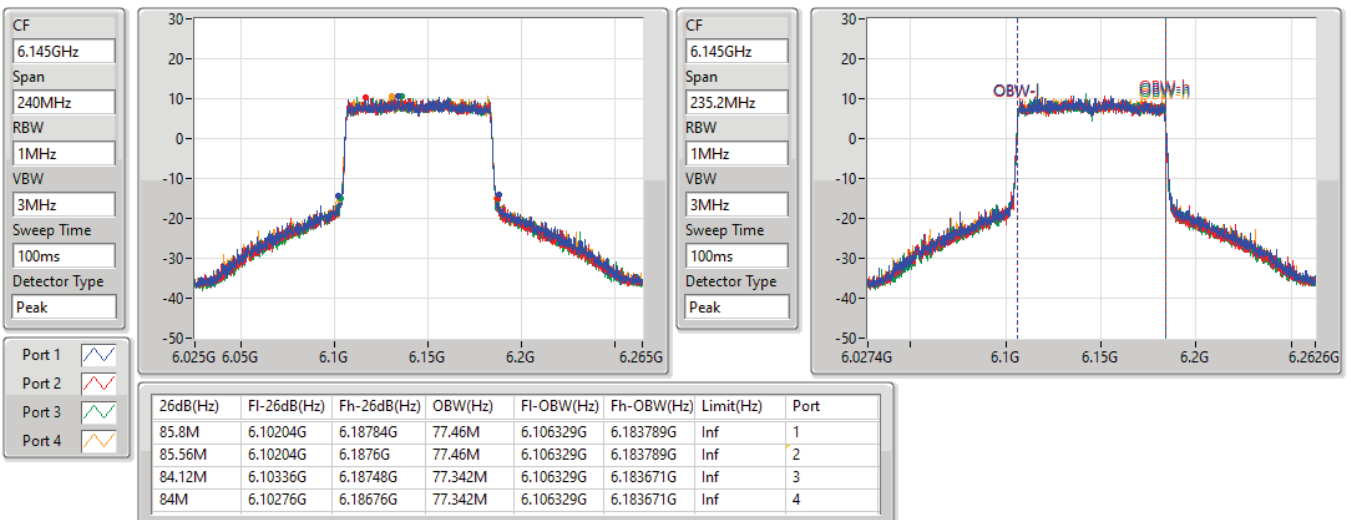


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5985MHz

30/09/2022


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
6145MHz

30/09/2022



5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6385MHz

30/09/2022

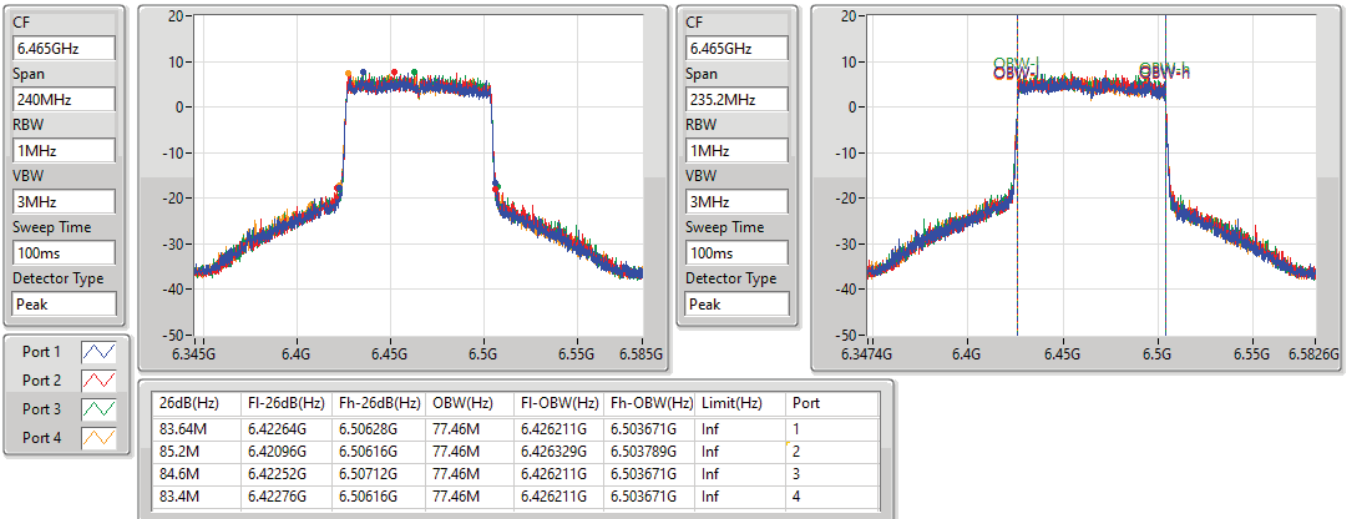


6.425-6.525GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6465MHz

30/09/2022



6.425-6.525GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6545MHz

30/09/2022



6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6625MHz

30/09/2022

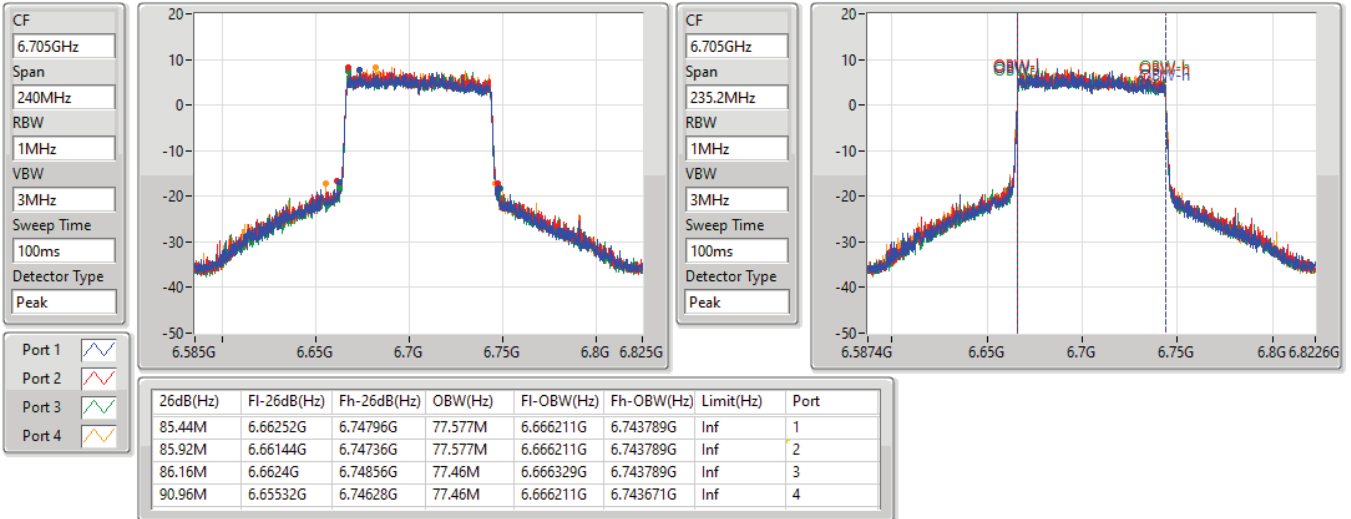


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6705MHz

30/09/2022

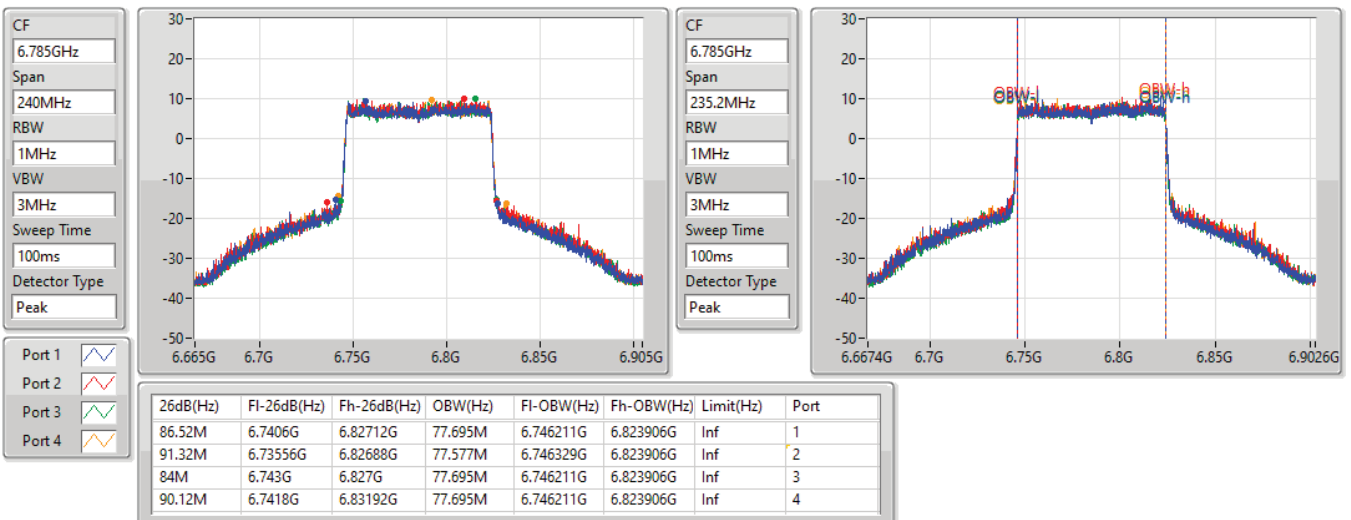


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6785MHz

30/09/2022



6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6865MHz

30/09/2022

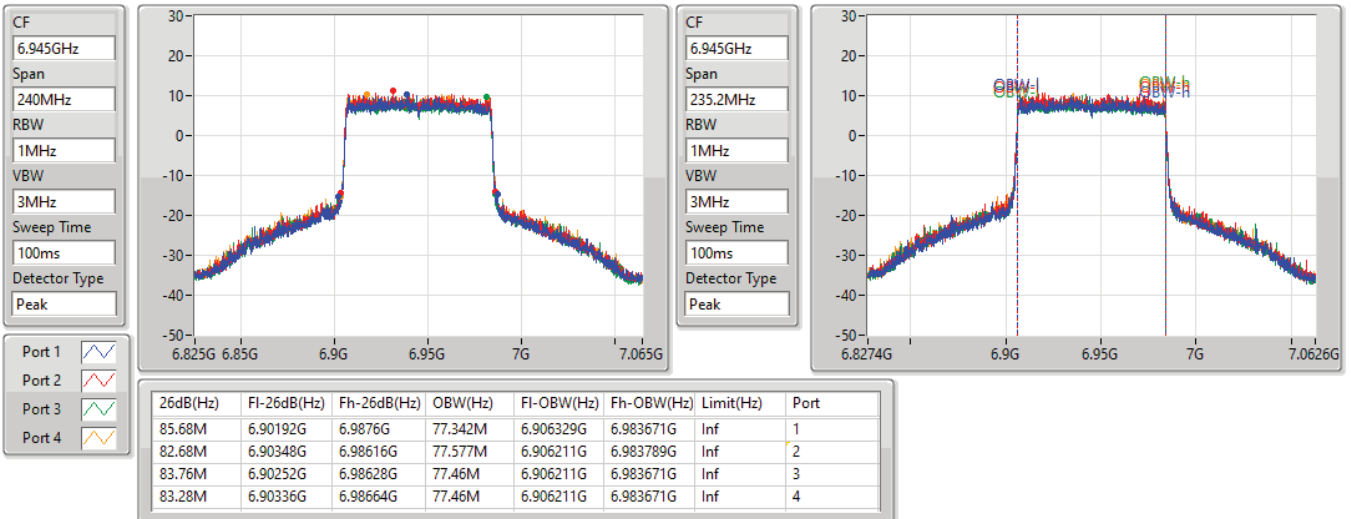


6.875-7.125GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

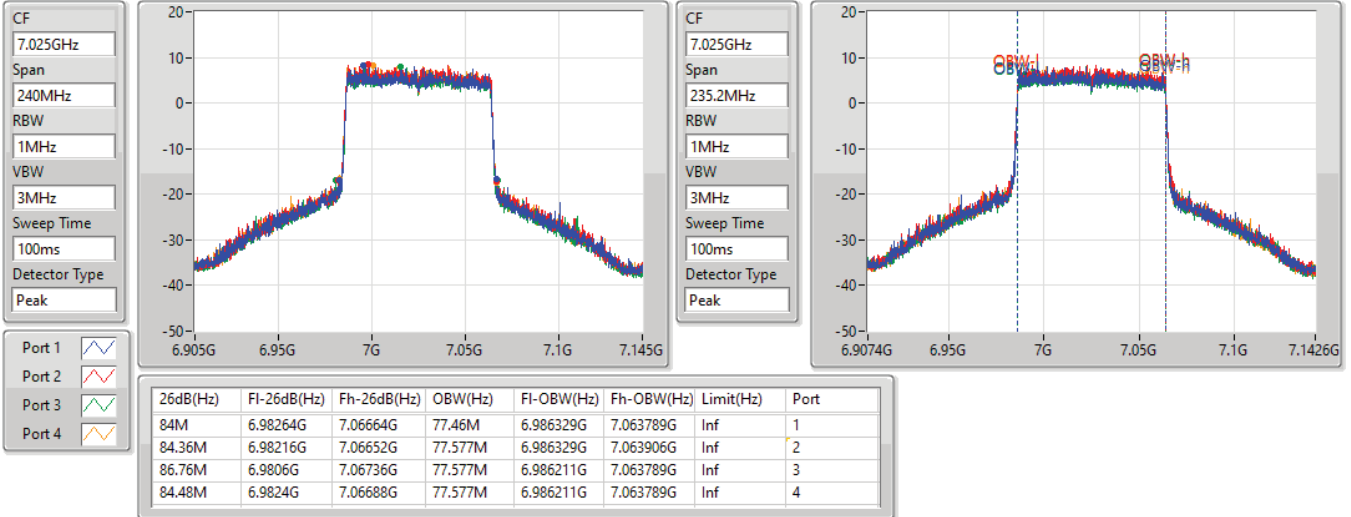
6945MHz

30/09/2022

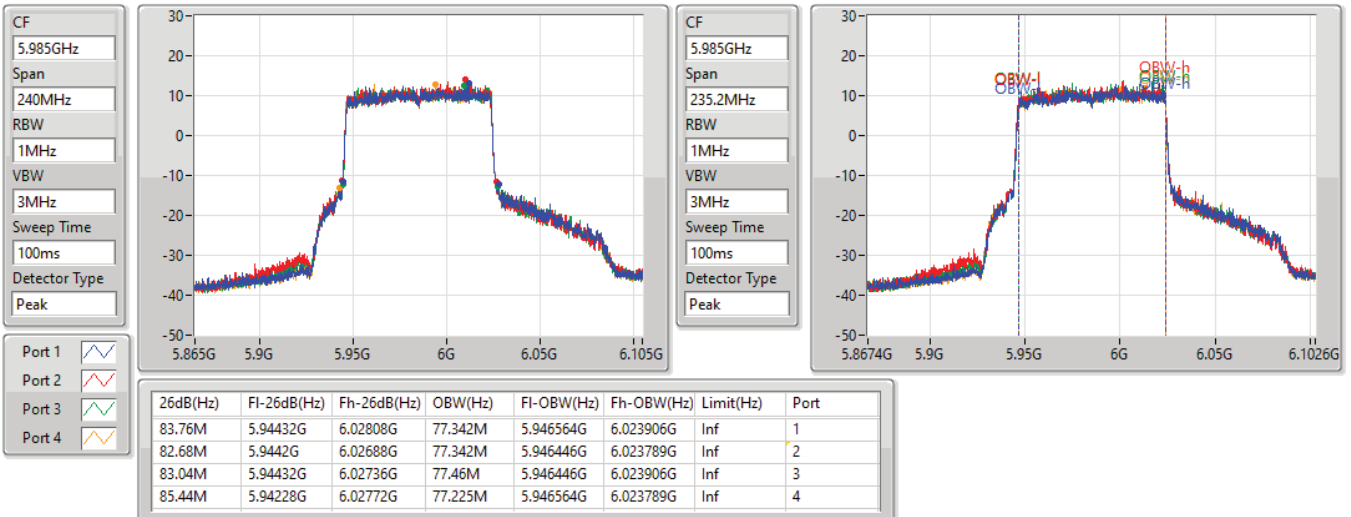


6.875-7.125GHz_802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
7025MHz

30/09/2022


5.925-6.425GHz_802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5985MHz

30/09/2022



5.925-6.425GHz_802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

6145MHz

30/09/2022



5.925-6.425GHz_802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

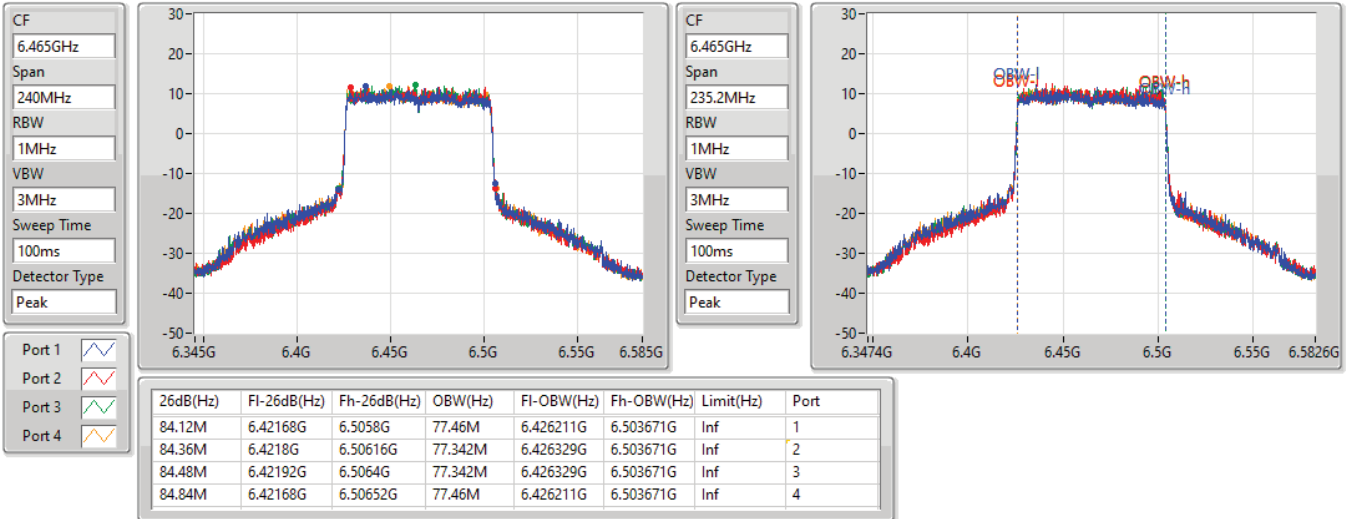
6385MHz

30/09/2022

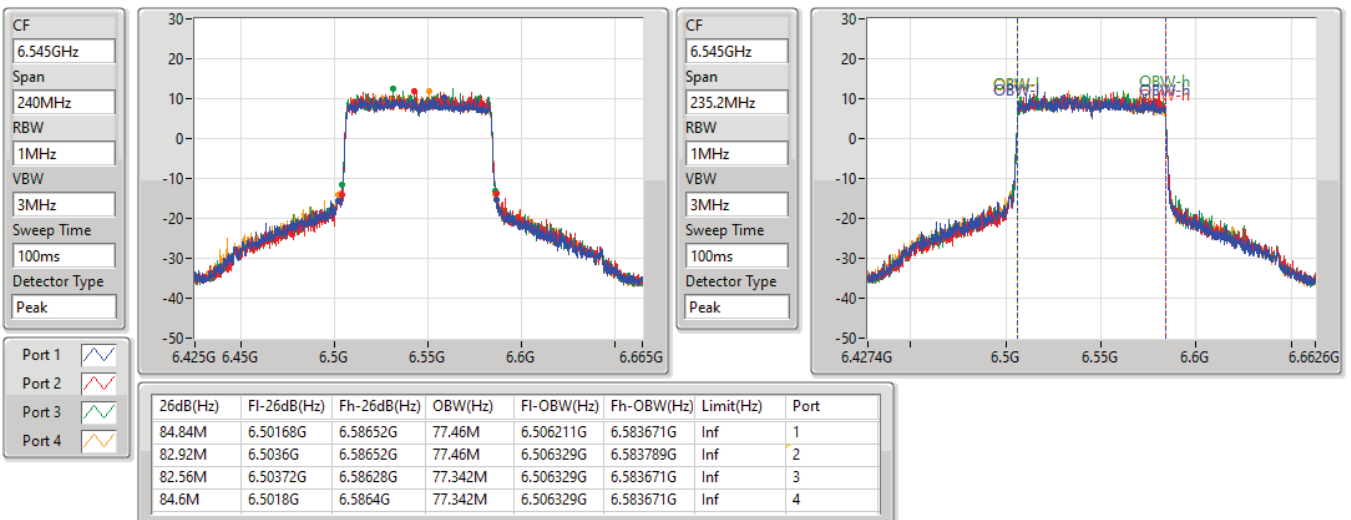


6.425-6.525GHz_802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
6465MHz

30/09/2022

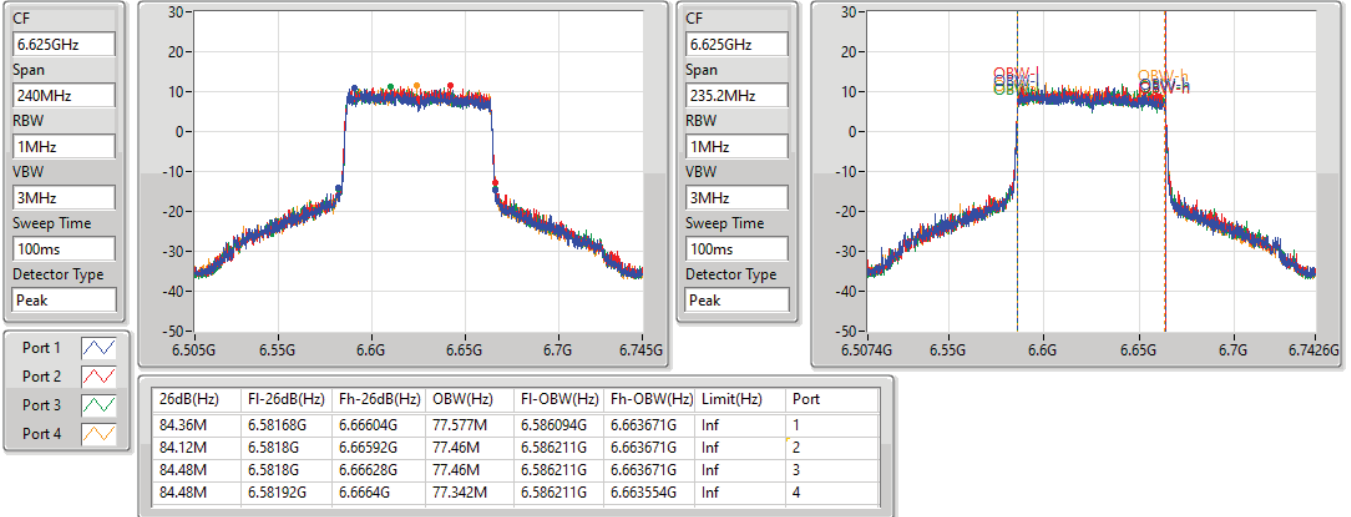

6.425-6.525GHz_802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
6545MHz

30/09/2022

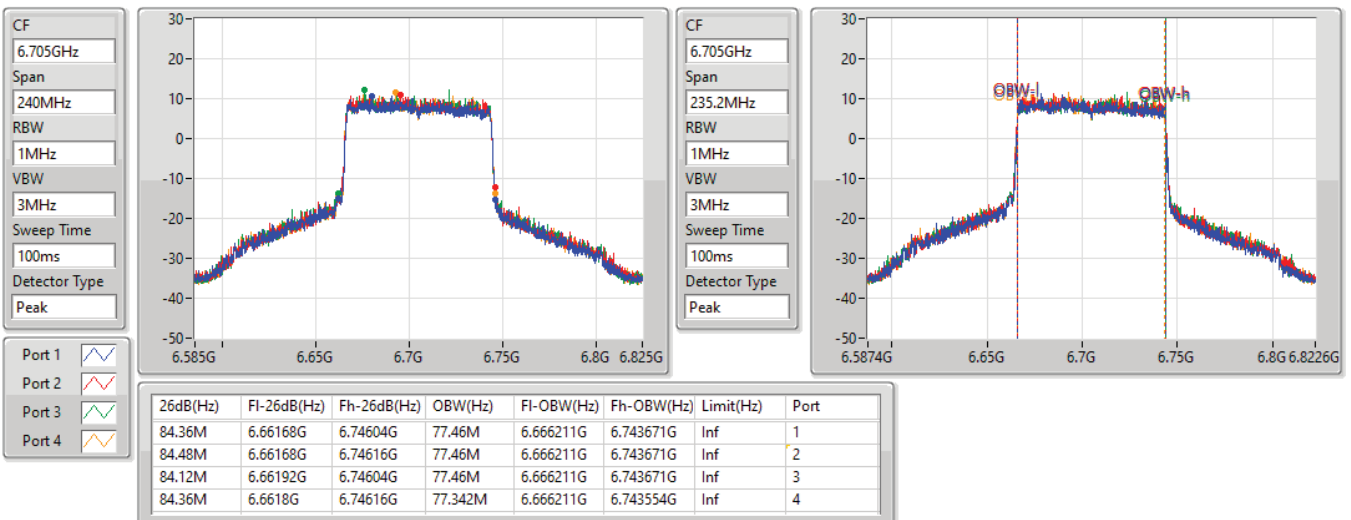


6.525-6.875GHz_802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
6625MHz

30/09/2022


6.525-6.875GHz_802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
6705MHz

30/09/2022

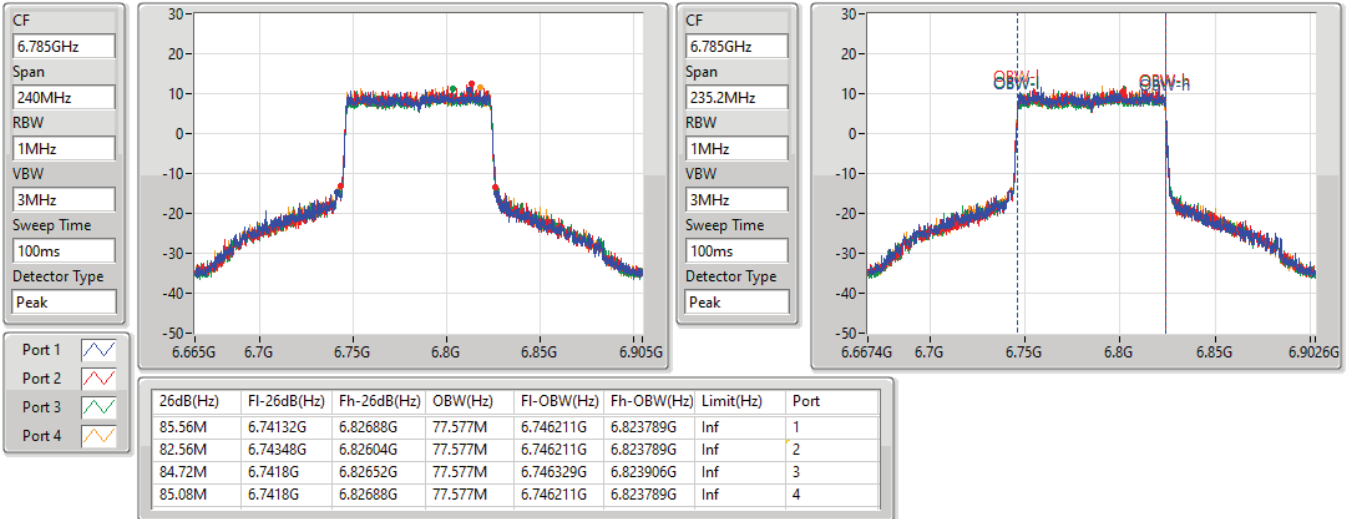


6.525-6.875GHz_802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

6785MHz

30/09/2022

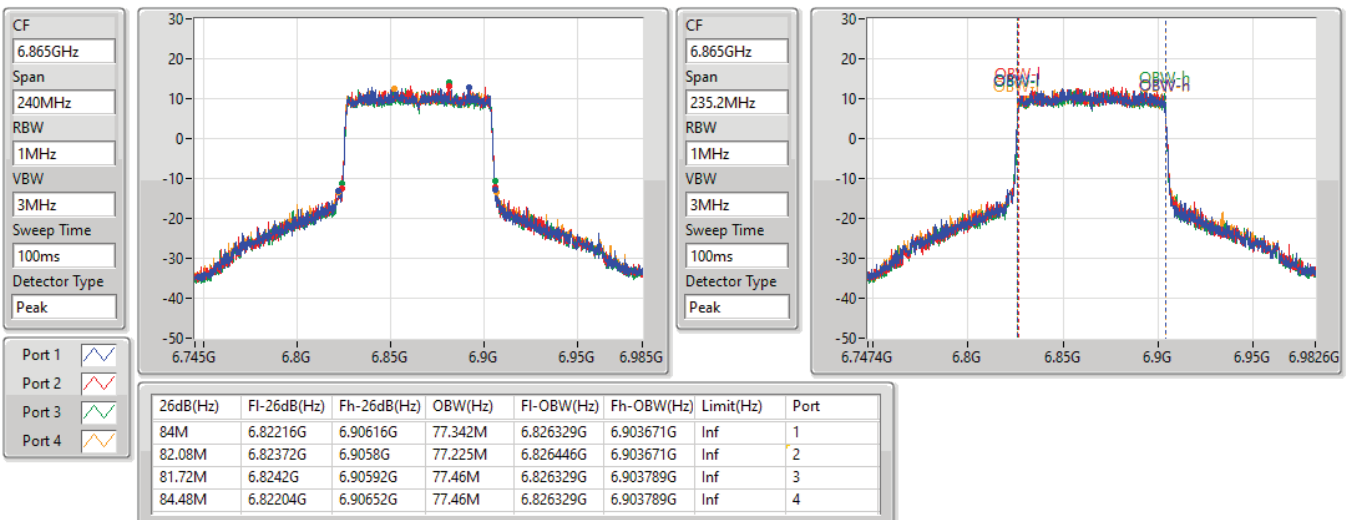


6.525-6.875GHz_802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

6865MHz

30/09/2022

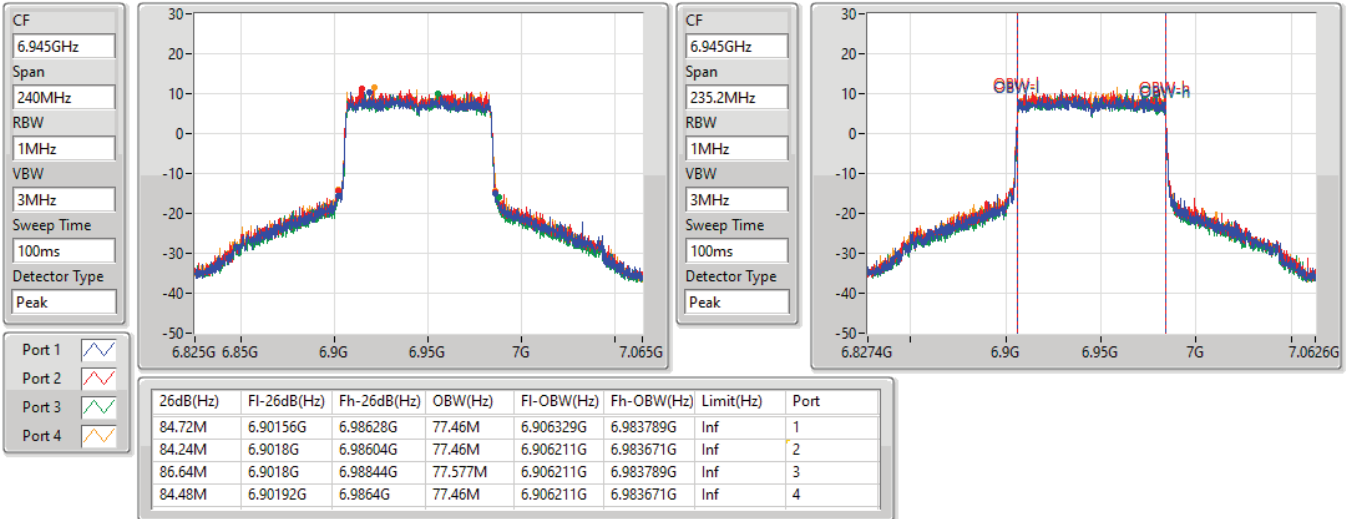


6.875-7.125GHz_802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

6945MHz

30/09/2022

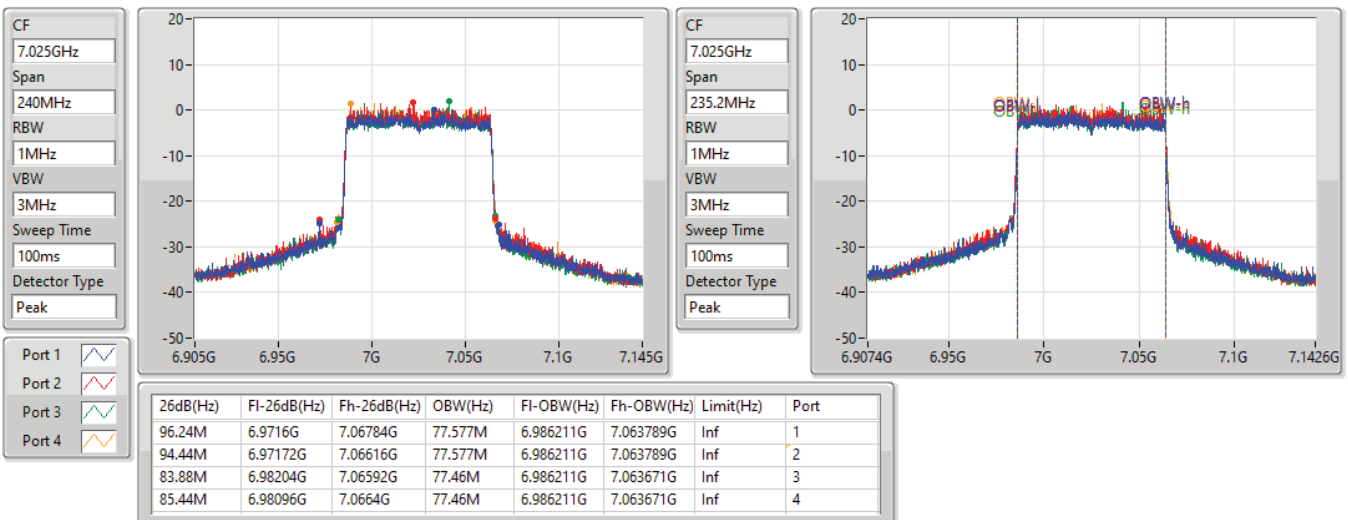


6.875-7.125GHz_802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

7025MHz

30/09/2022

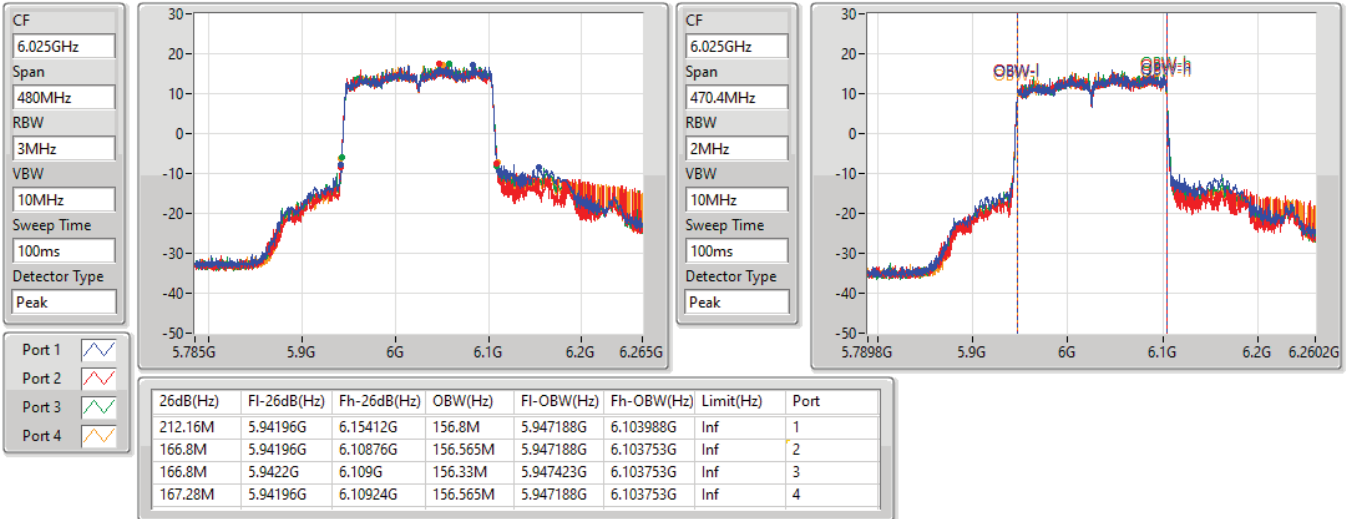


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6025MHz

30/09/2022

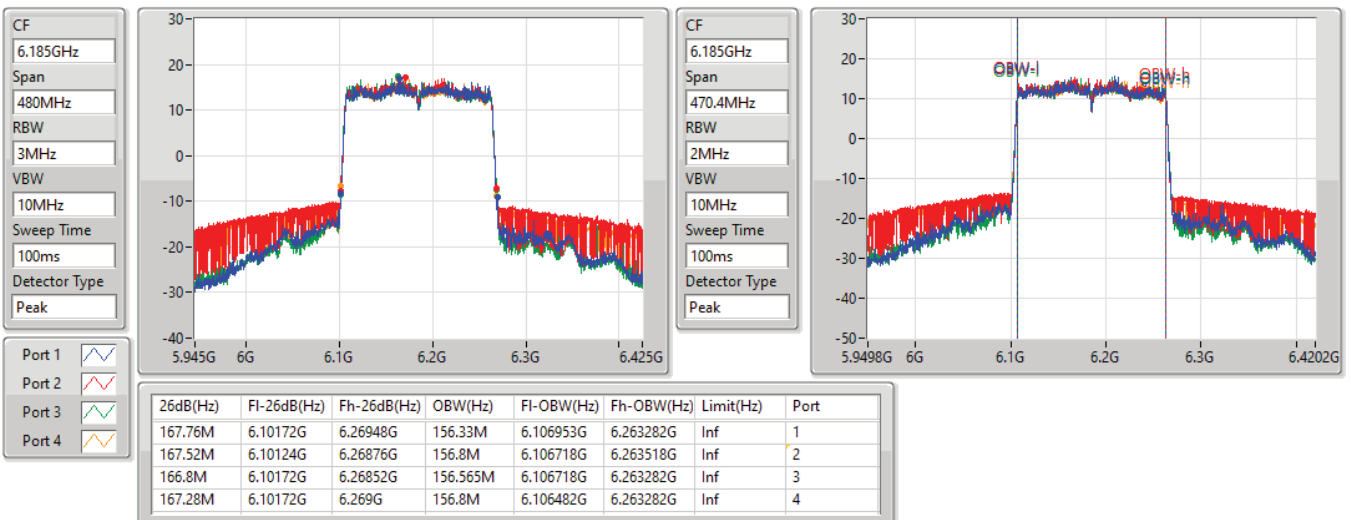


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6185MHz

30/09/2022

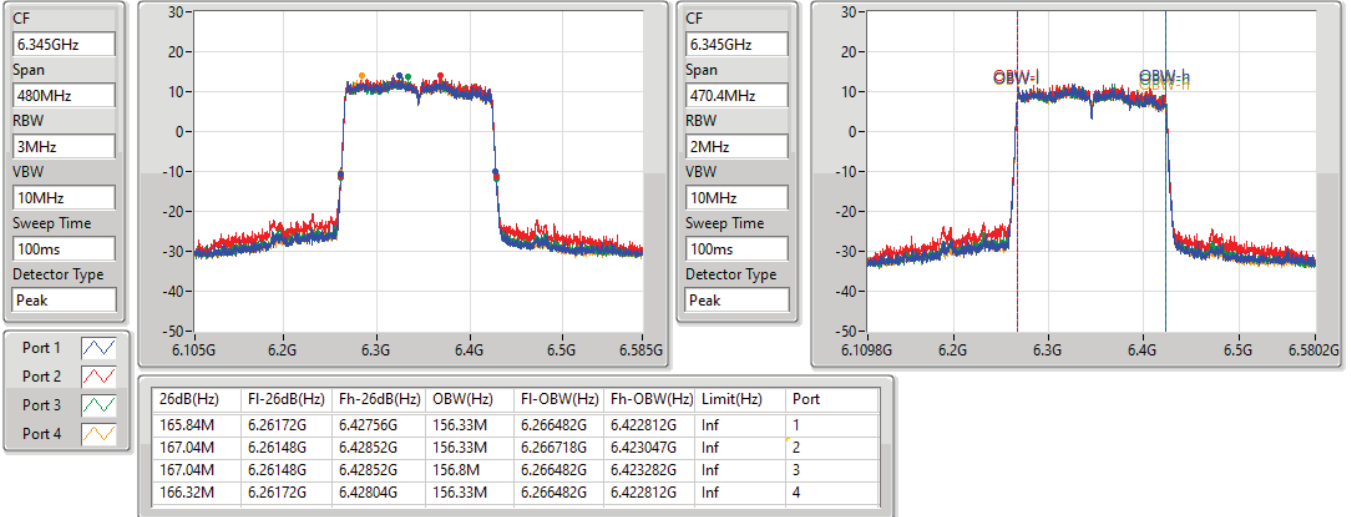


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6345MHz

30/09/2022

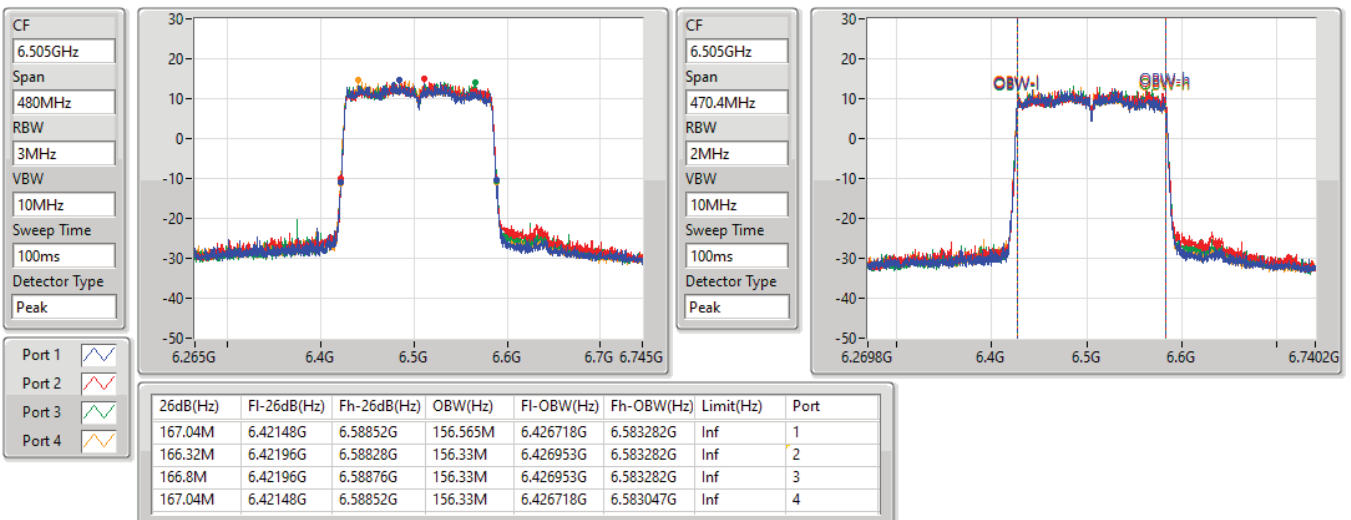


6.425-6.525GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6505MHz

30/09/2022

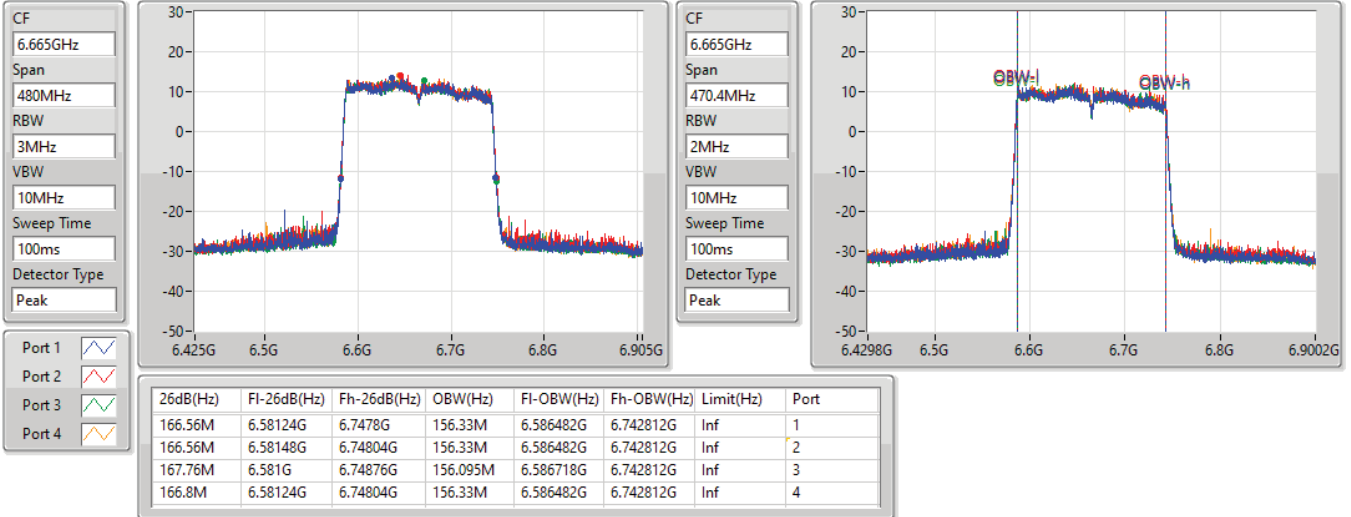


6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6665MHz

30/09/2022

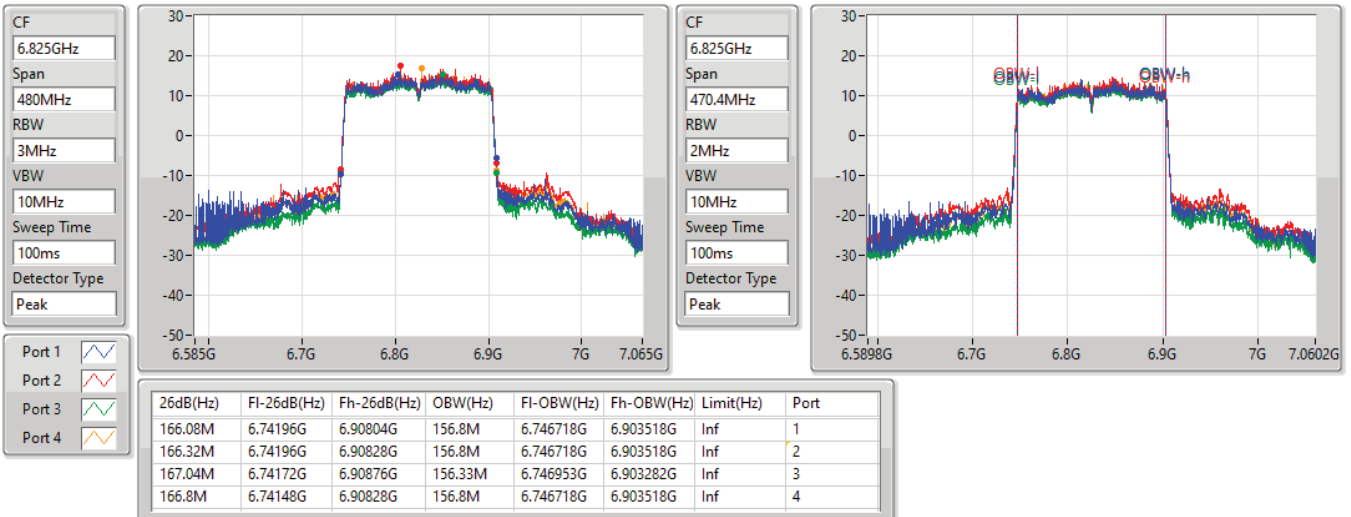


6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6825MHz

30/09/2022

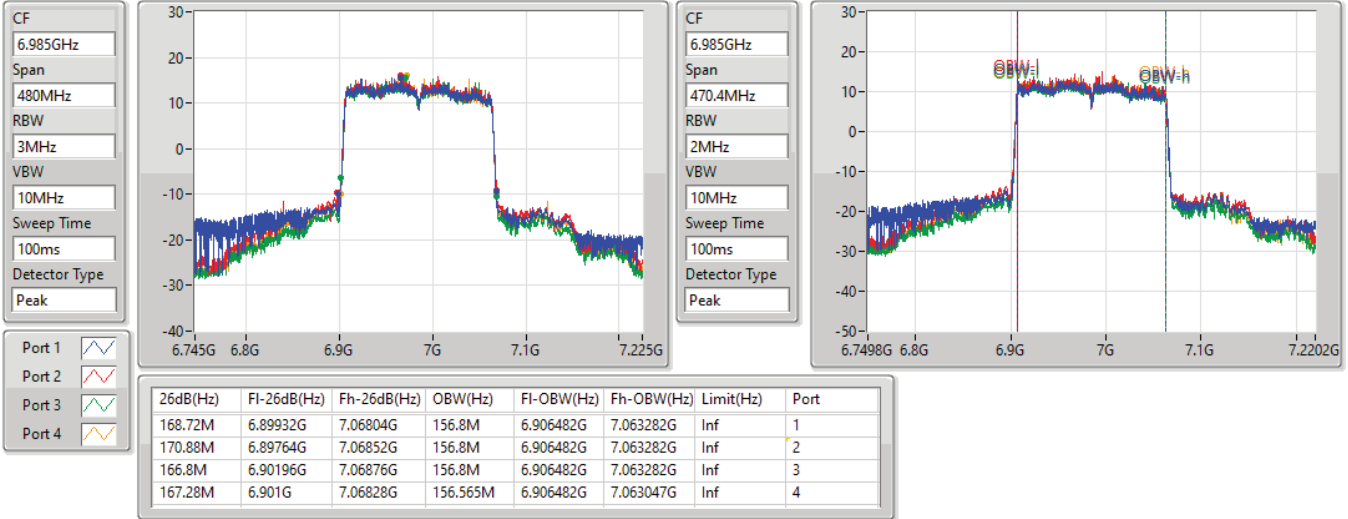


6.875-7.125GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6985MHz

30/09/2022

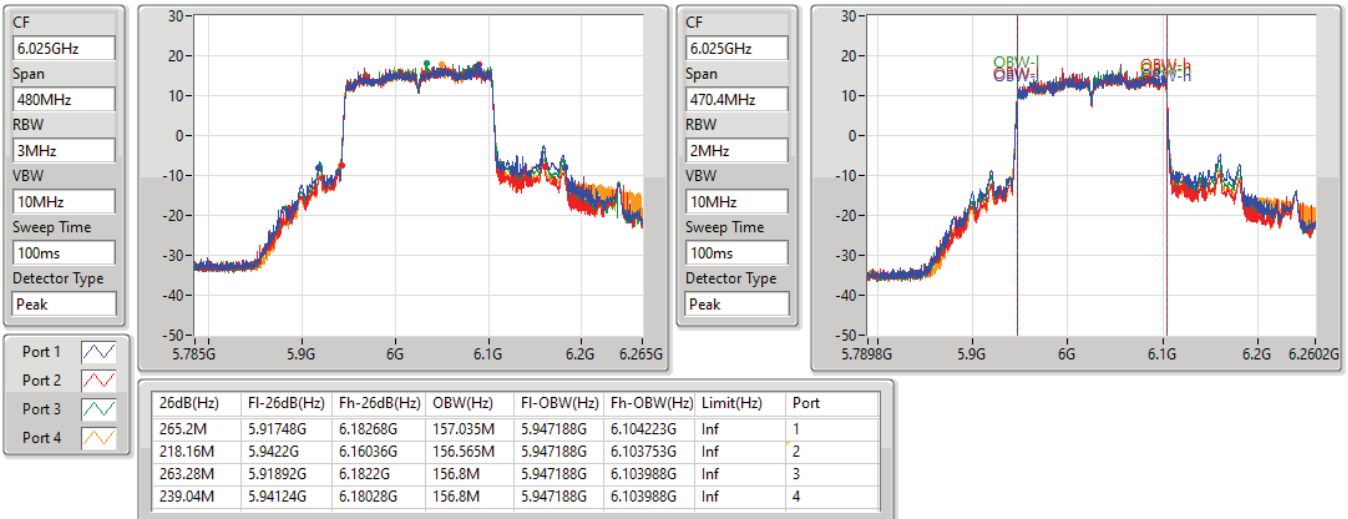


5.925-6.425GHz_802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

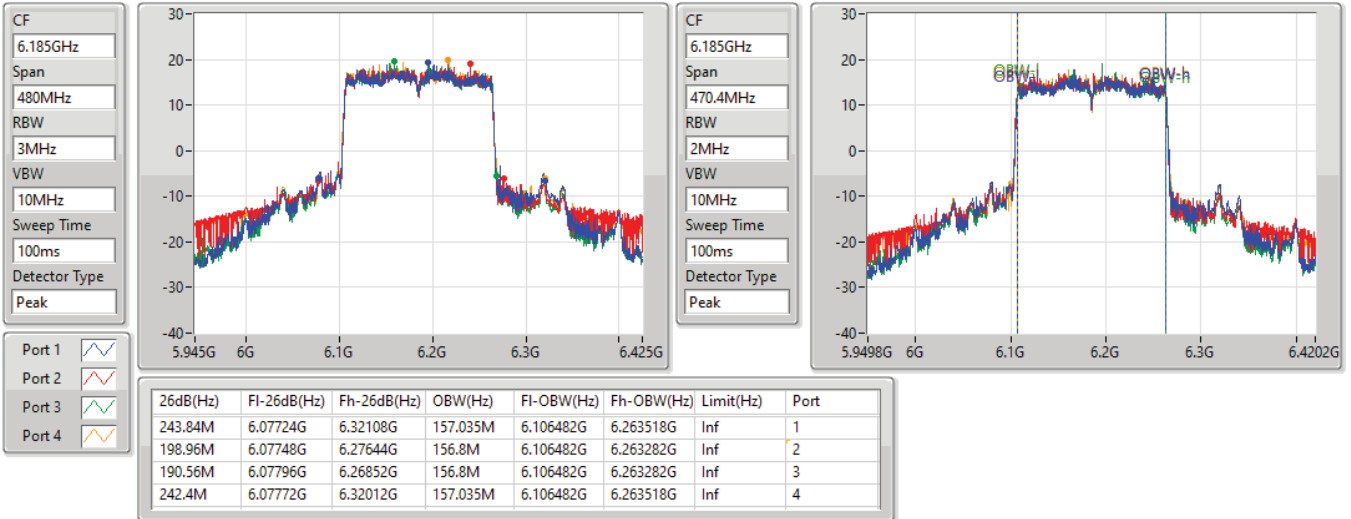
6025MHz

30/09/2022

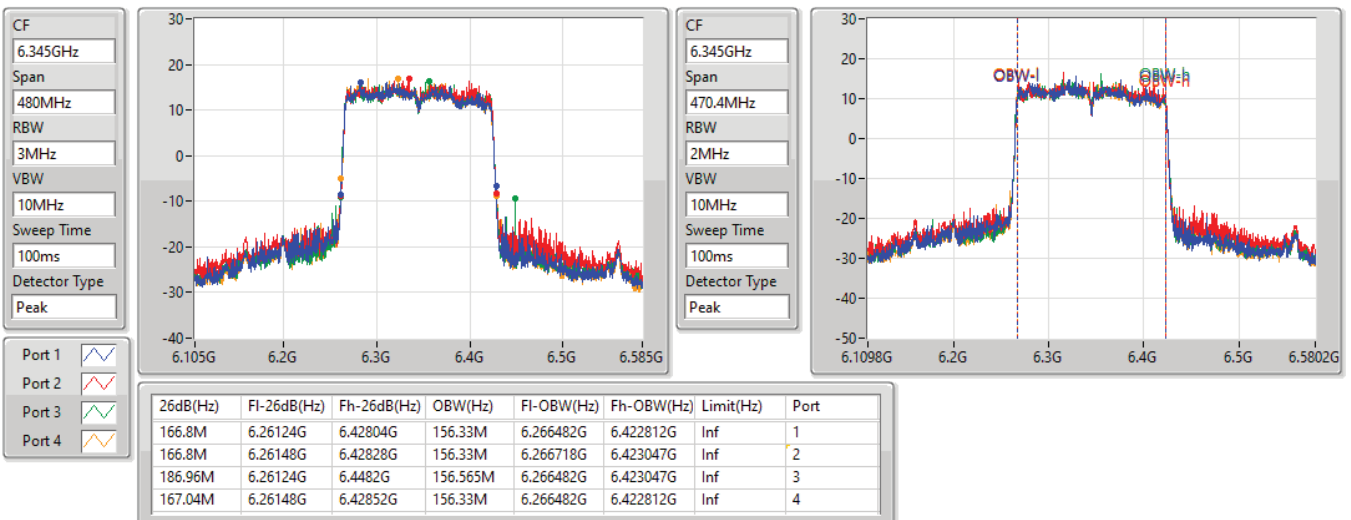


5.925-6.425GHz_802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
6185MHz

30/09/2022


5.925-6.425GHz_802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
6345MHz

30/09/2022

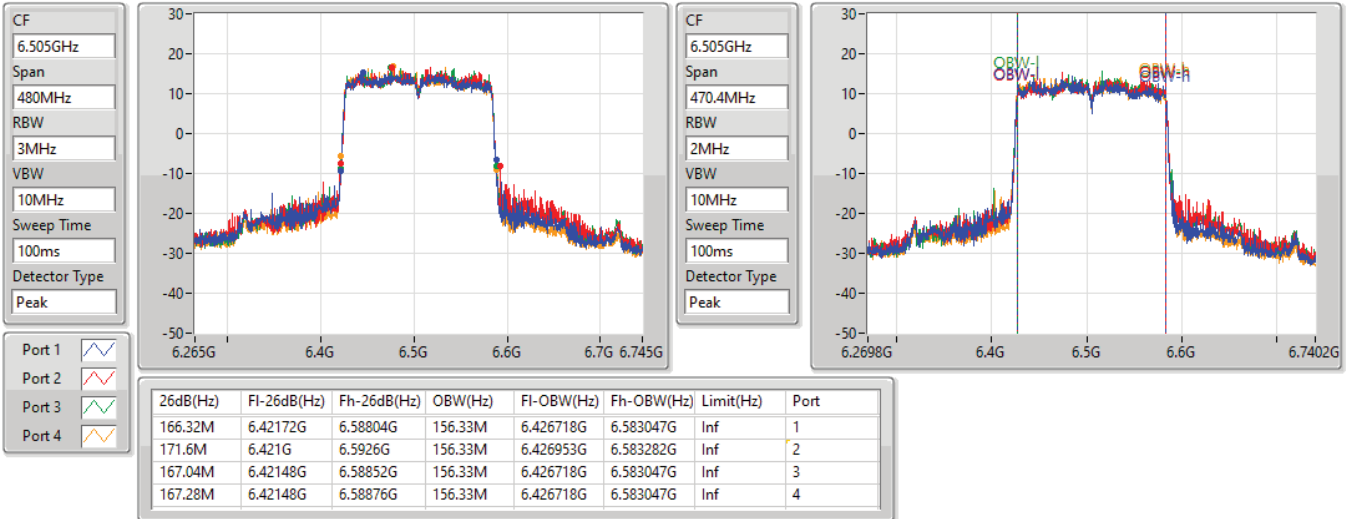


6.425-6.525GHz_802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6505MHz

30/09/2022

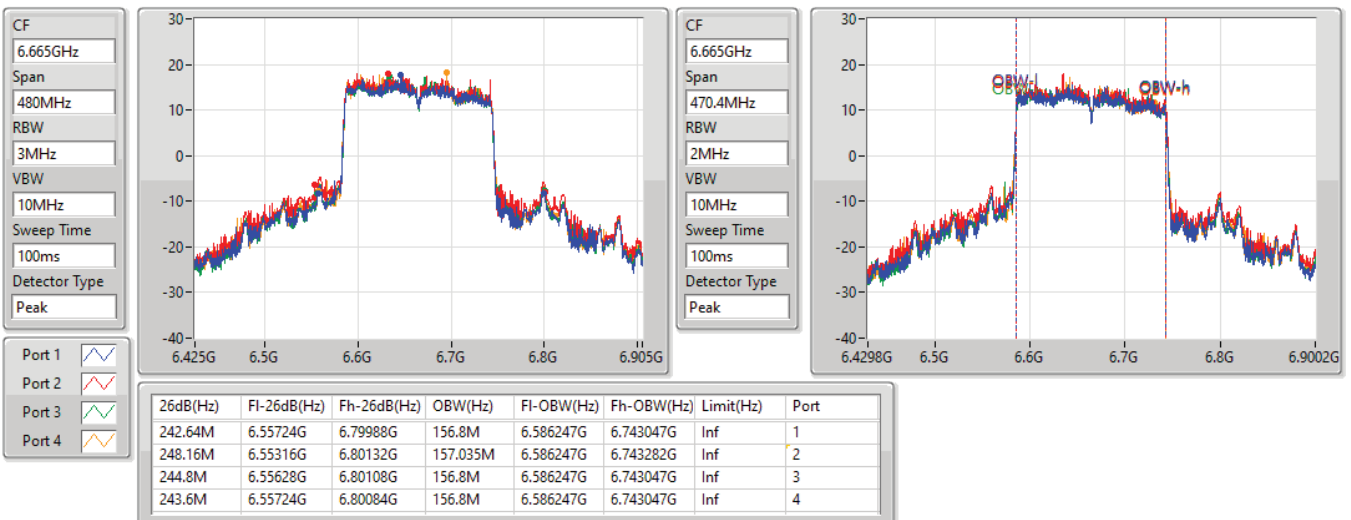


6.525-6.875GHz_802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6665MHz

30/09/2022

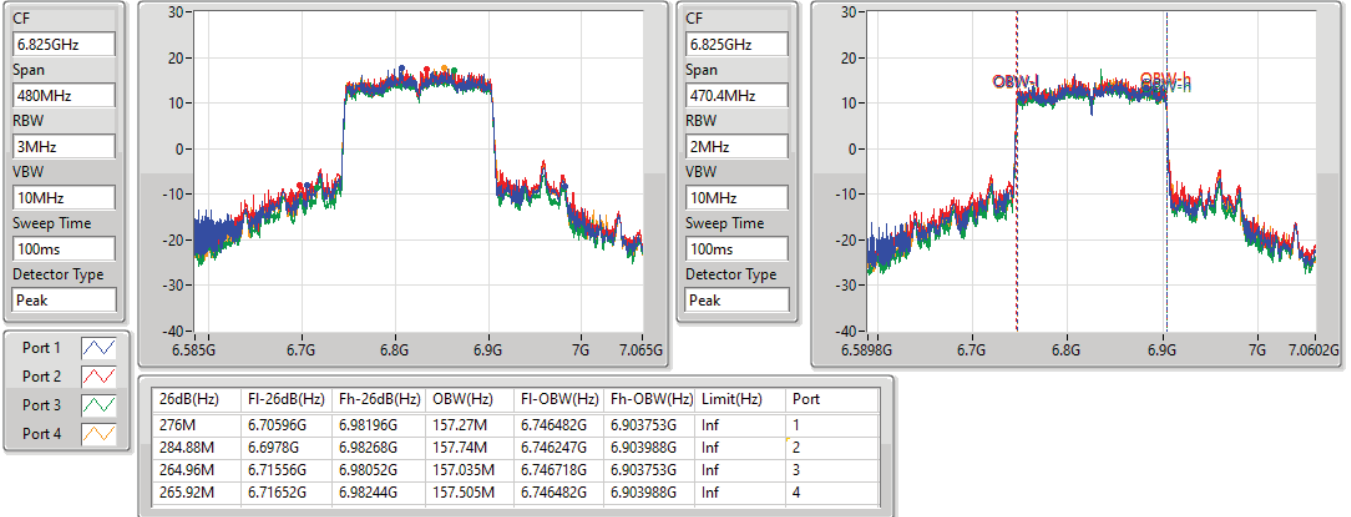


6.525-6.875GHz_802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6825MHz

30/09/2022

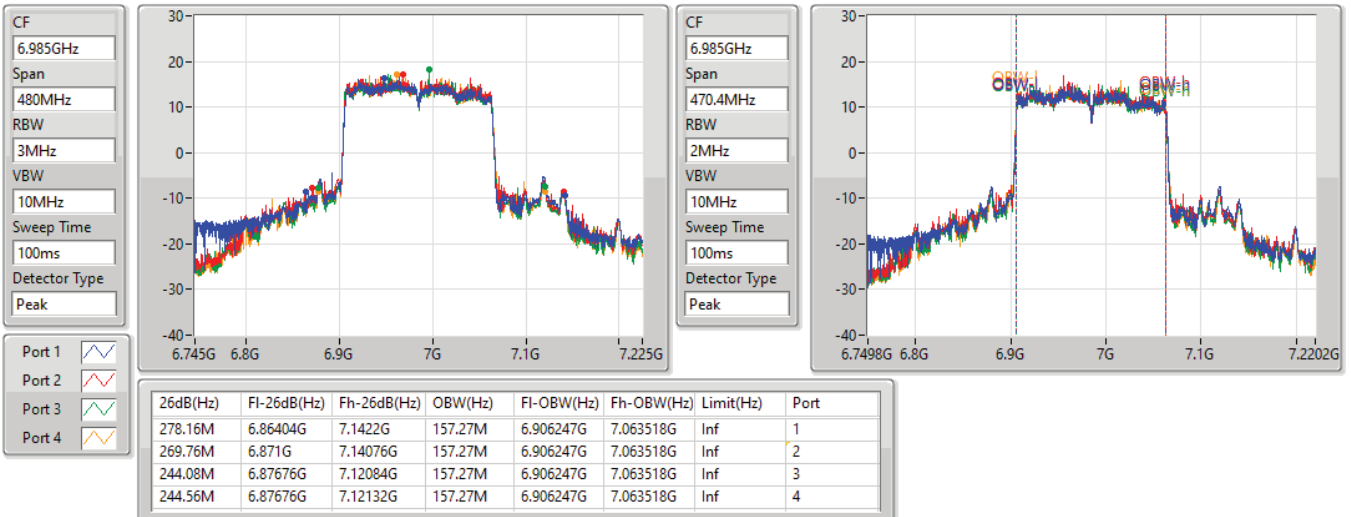


6.875-7.125GHz_802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6985MHz

30/09/2022



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.62M	19.189M	19M2D1D	22.11M	19.1M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	52.08M	37.848M	37M8D1D	41.4M	37.79M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	84.72M	77.46M	77M5D1D	81.36M	77.225M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	171.84M	157.035M	157MD1D	164.16M	155.86M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.12M	19.159M	19M2D1D	21.78M	19.13M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	47.7M	37.907M	37M9D1D	41.7M	37.79M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.92M	77.46M	77M5D1D	81.12M	77.342M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	169.44M	156.565M	157MD1D	164.16M	156.095M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.13M	19.189M	19M2D1D	22.02M	19.1M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45.66M	37.907M	37M9D1D	41.16M	37.731M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	87.84M	77.577M	77M6D1D	81.24M	77.342M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	171.36M	156.8M	157MD1D	163.44M	156.33M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.43M	19.218M	19M2D1D	22.32M	19.13M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	50.76M	37.966M	38M0D1D	40.74M	37.731M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	84.72M	77.577M	77M6D1D	81.12M	77.225M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	194.88M	157.035M	157MD1D	163.44M	156.095M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	25.05M	19.1M	22.8M	19.1M	22.68M	19.13M	24.63M	19.189M
6175MHz	Pass	Inf	22.11M	19.159M	22.62M	19.159M	22.74M	19.159M	22.92M	19.159M
6415MHz	Pass	Inf	24.84M	19.13M	22.89M	19.159M	24.15M	19.1M	25.62M	19.13M
6435MHz	Pass	Inf	22.95M	19.159M	22.02M	19.13M	22.11M	19.13M	27.12M	19.159M
6475MHz	Pass	Inf	22.56M	19.13M	21.78M	19.159M	22.32M	19.13M	23.58M	19.13M
6515MHz	Pass	Inf	25.5M	19.159M	24.87M	19.159M	23.1M	19.13M	25.89M	19.159M
6535MHz	Pass	Inf	22.17M	19.189M	23.97M	19.189M	25.29M	19.159M	25.23M	19.13M
6695MHz	Pass	Inf	24.03M	19.13M	22.59M	19.1M	24.09M	19.159M	22.71M	19.159M
6855MHz	Pass	Inf	23.37M	19.13M	26.13M	19.159M	24.57M	19.189M	24.15M	19.159M
6875MHz	Pass	Inf	25.14M	19.159M	23.31M	19.1M	25.38M	19.159M	22.02M	19.13M
6895MHz	Pass	Inf	23.46M	19.159M	26.43M	19.13M	23.73M	19.13M	22.32M	19.13M
6995MHz	Pass	Inf	23.55M	19.189M	23.76M	19.218M	25.38M	19.159M	24.33M	19.189M
7095MHz	Pass	Inf	24.99M	19.159M	22.47M	19.13M	25.98M	19.189M	22.62M	19.159M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	45.6M	37.848M	52.08M	37.848M	42.48M	37.848M	42.6M	37.79M
6165MHz	Pass	Inf	41.4M	37.848M	44.46M	37.79M	42M	37.79M	42.72M	37.848M
6405MHz	Pass	Inf	42.9M	37.848M	42.06M	37.848M	43.08M	37.848M	41.58M	37.848M
6445MHz	Pass	Inf	42.42M	37.848M	42.12M	37.848M	42.3M	37.907M	43.8M	37.848M
6485MHz	Pass	Inf	42.96M	37.848M	46.68M	37.848M	42.48M	37.79M	42.66M	37.907M
6525MHz	Pass	Inf	47.7M	37.848M	41.7M	37.848M	45.9M	37.79M	43.14M	37.848M
6565MHz	Pass	Inf	44.52M	37.848M	43.08M	37.848M	44.4M	37.848M	43.32M	37.848M
6685MHz	Pass	Inf	42.42M	37.848M	42.54M	37.79M	41.16M	37.848M	42.72M	37.848M
6845MHz	Pass	Inf	42.12M	37.731M	42M	37.848M	42.12M	37.79M	41.64M	37.79M
6885MHz	Pass	Inf	45.66M	37.848M	41.82M	37.848M	42M	37.907M	41.28M	37.907M
6925MHz	Pass	Inf	40.74M	37.79M	41.46M	37.731M	41.64M	37.79M	41.88M	37.848M
7005MHz	Pass	Inf	41.88M	37.848M	41.1M	37.731M	41.52M	37.79M	42.6M	37.848M
7085MHz	Pass	Inf	50.76M	37.907M	48.18M	37.907M	45.12M	37.966M	43.38M	37.907M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	82.44M	77.225M	83.16M	77.46M	82.2M	77.342M	82.32M	77.342M
6145MHz	Pass	Inf	81.6M	77.342M	81.36M	77.342M	82.08M	77.46M	81.36M	77.225M
6385MHz	Pass	Inf	81.48M	77.342M	84.72M	77.46M	84.24M	77.342M	81.72M	77.342M
6465MHz	Pass	Inf	81.36M	77.46M	82.92M	77.342M	82.68M	77.46M	81.36M	77.46M
6545MHz	Pass	Inf	81.12M	77.342M	81.12M	77.342M	81.6M	77.342M	81.72M	77.342M
6625MHz	Pass	Inf	87.84M	77.577M	81.24M	77.577M	82.2M	77.577M	81.36M	77.46M
6705MHz	Pass	Inf	81.36M	77.46M	81.24M	77.342M	81.36M	77.342M	81.72M	77.342M
6785MHz	Pass	Inf	84.84M	77.46M	83.52M	77.46M	81.96M	77.342M	81.72M	77.577M
6865MHz	Pass	Inf	81.6M	77.577M	82.08M	77.577M	81.72M	77.342M	81.48M	77.46M
6945MHz	Pass	Inf	82.08M	77.577M	81.96M	77.342M	84.12M	77.46M	84.72M	77.577M
7025MHz	Pass	Inf	81.84M	77.342M	81.48M	77.225M	81.12M	77.342M	81.24M	77.342M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	165.6M	156.33M	166.56M	155.86M	165.12M	156.095M	171.84M	156.33M
6185MHz	Pass	Inf	166.8M	156.095M	171.36M	156.33M	170.4M	156.565M	167.28M	156.565M
6345MHz	Pass	Inf	164.4M	156.095M	164.16M	157.035M	167.04M	156.095M	165.12M	156.565M
6505MHz	Pass	Inf	169.44M	156.095M	167.52M	156.095M	164.16M	156.565M	164.88M	156.565M
6665MHz	Pass	Inf	163.44M	156.8M	169.44M	156.8M	165.36M	156.33M	168.96M	156.565M
6825MHz	Pass	Inf	167.28M	156.565M	164.4M	156.565M	171.36M	156.565M	165.6M	156.33M
6985MHz	Pass	Inf	173.04M	156.565M	194.88M	157.035M	163.44M	156.095M	165.12M	156.095M

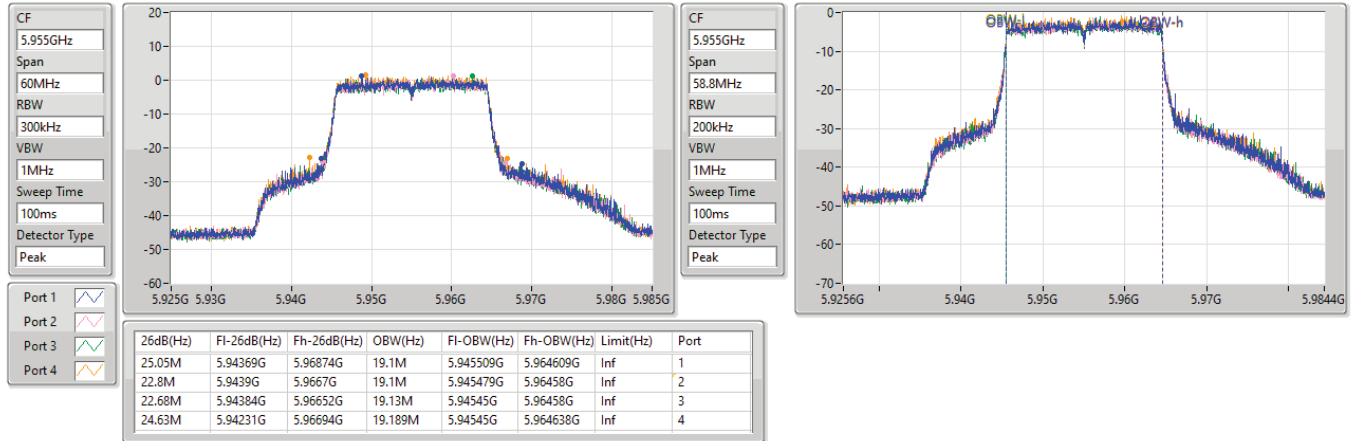
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5955MHz

07/10/2022

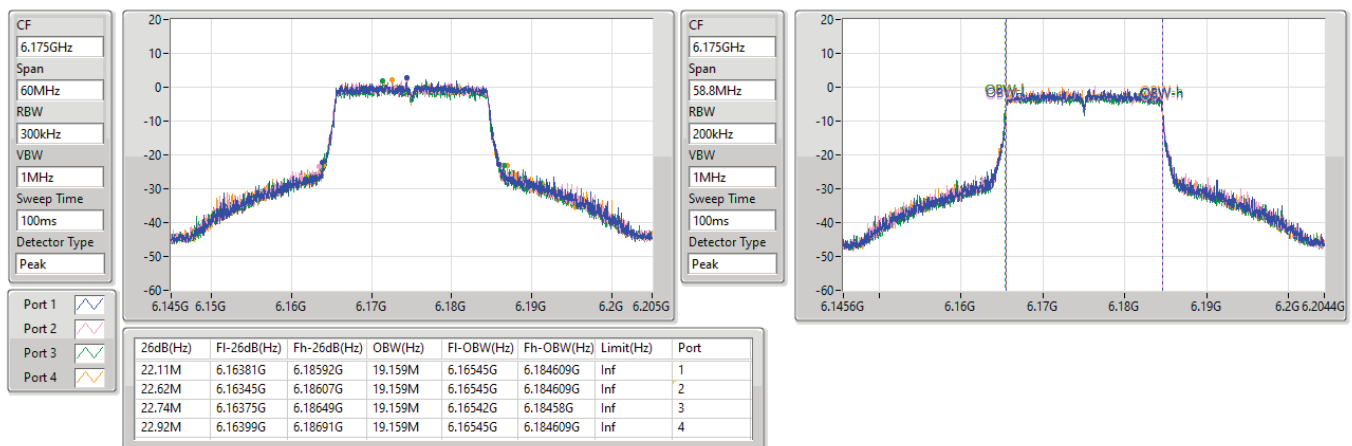


5.925-6.425GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6175MHz

07/10/2022

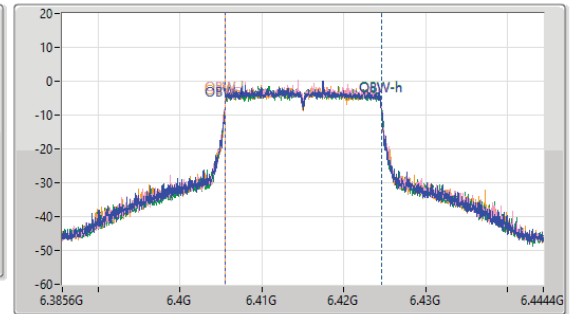
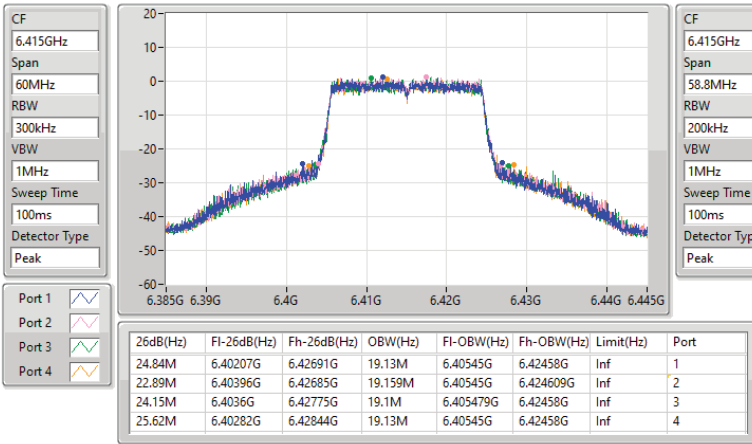


5.925-6.425GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6415MHz

07/10/2022

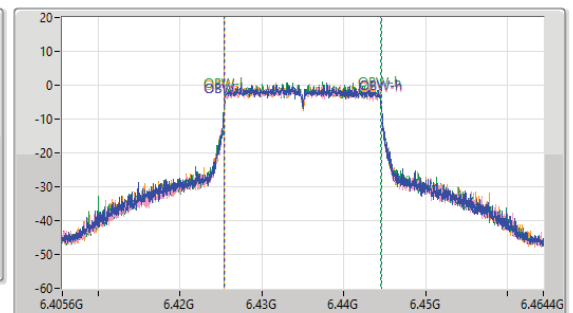
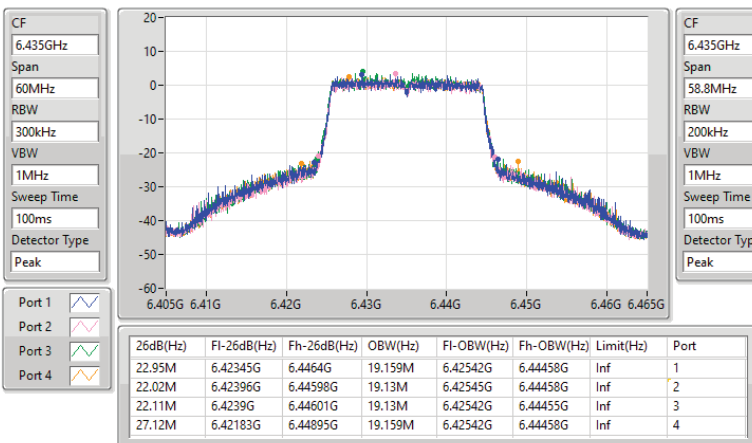


6.425-6.525GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6435MHz

07/10/2022

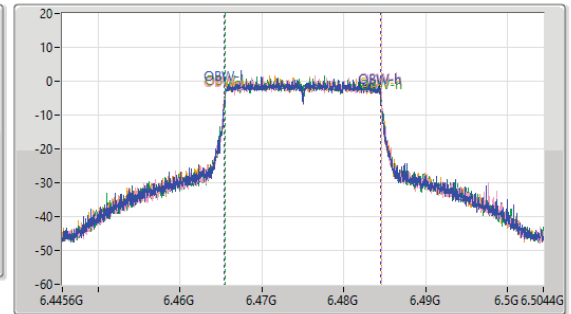
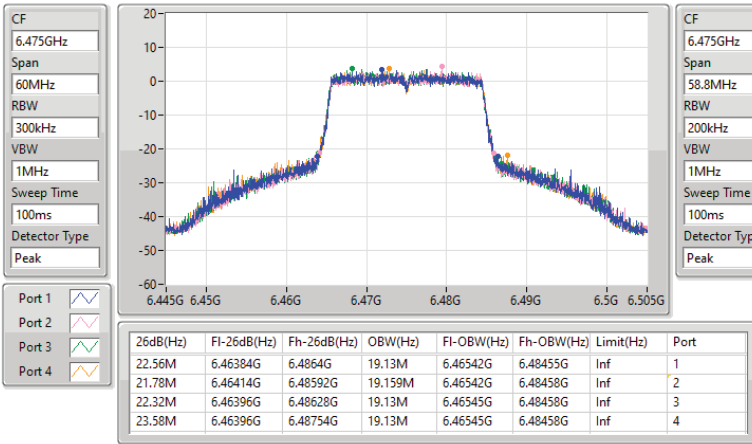


6.425-6.525GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6475MHz

07/10/2022

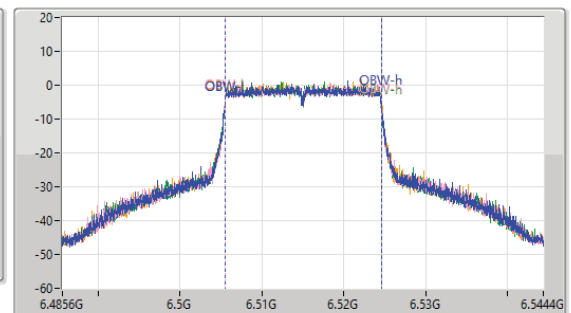
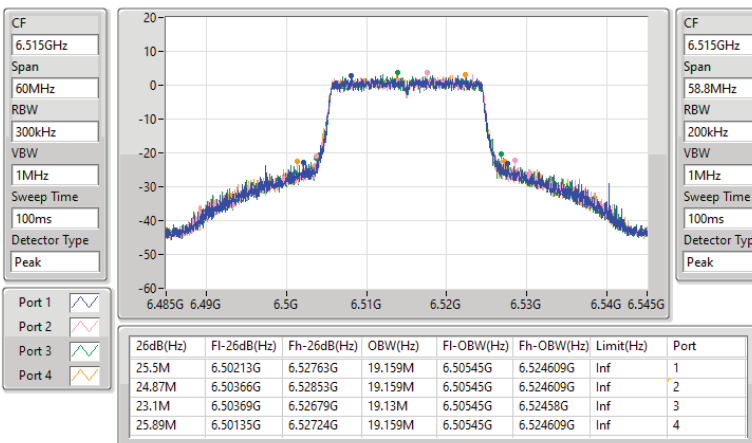


6.425-6.525GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6515MHz

07/10/2022

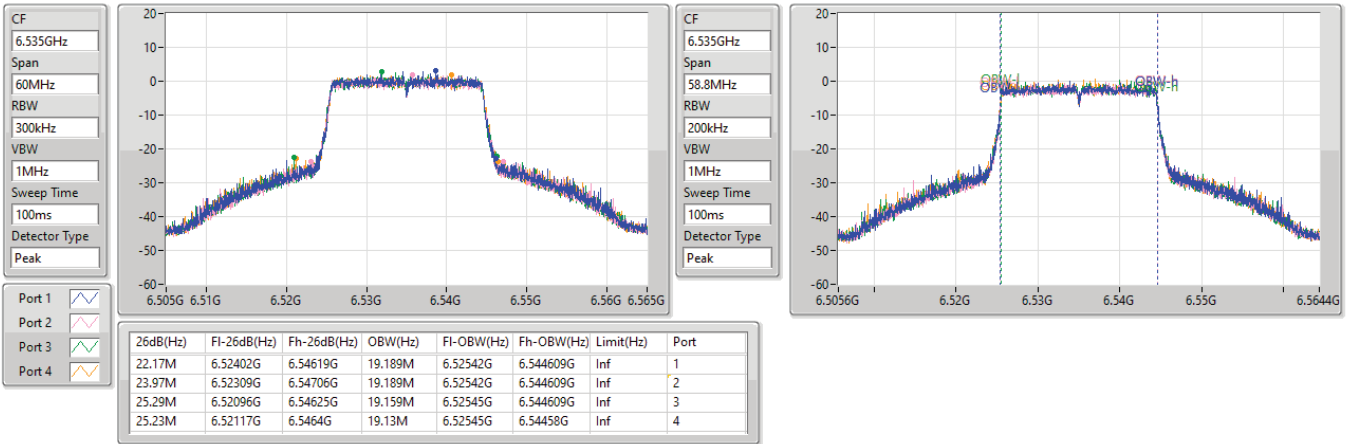


6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6535MHz

07/10/2022

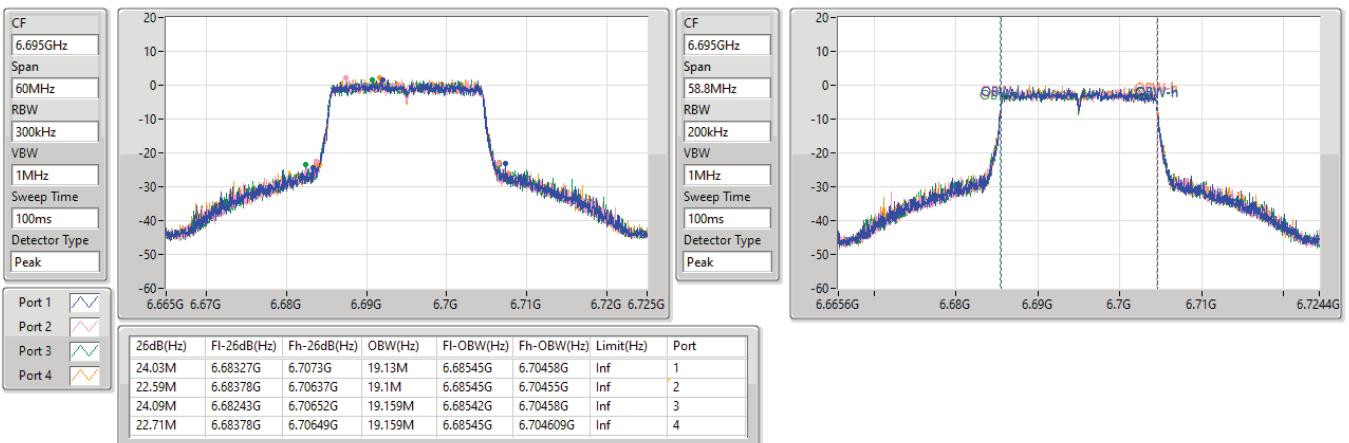


6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6695MHz

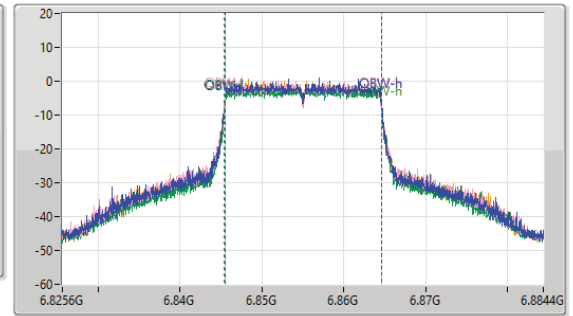
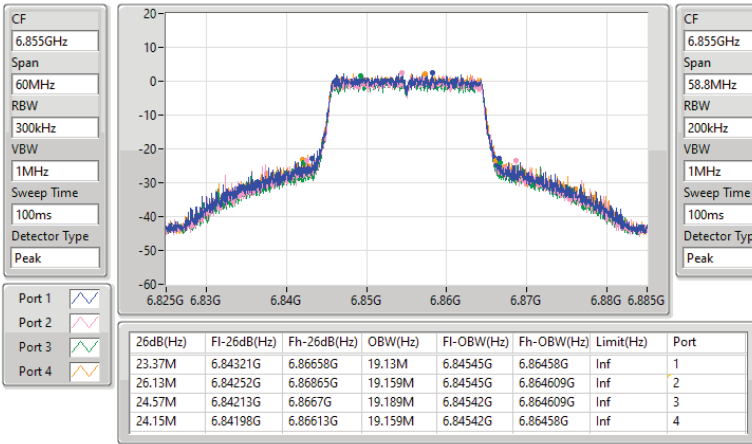
07/10/2022



6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
6855MHz

EBW

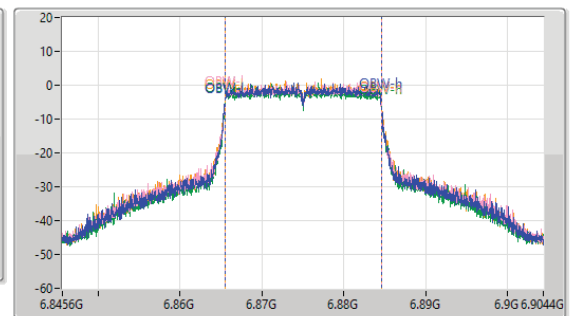
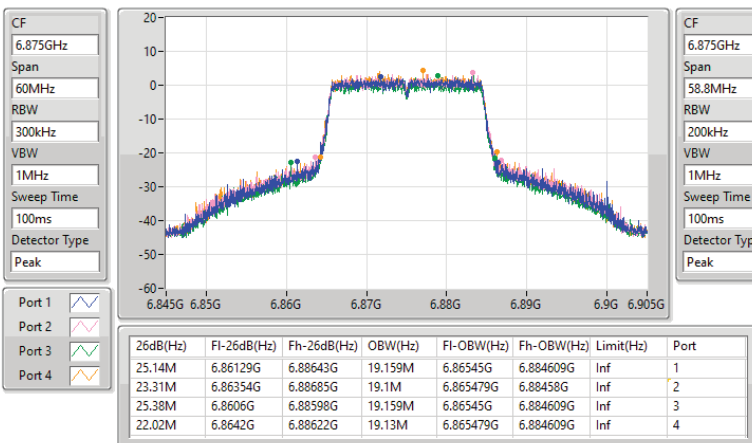
07/10/2022



6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
6875MHz

EBW

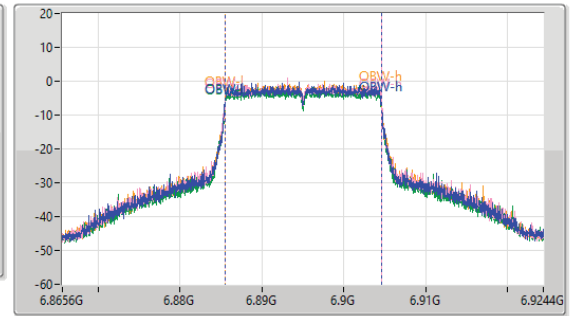
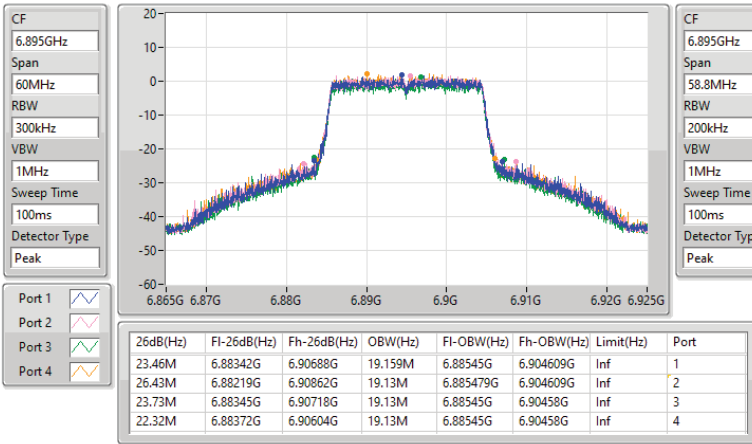
07/10/2022



6.875-7.125GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
6895MHz

EBW

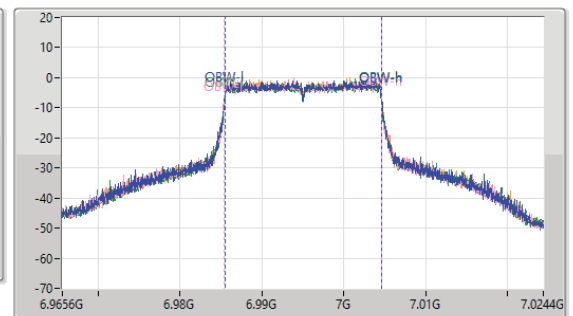
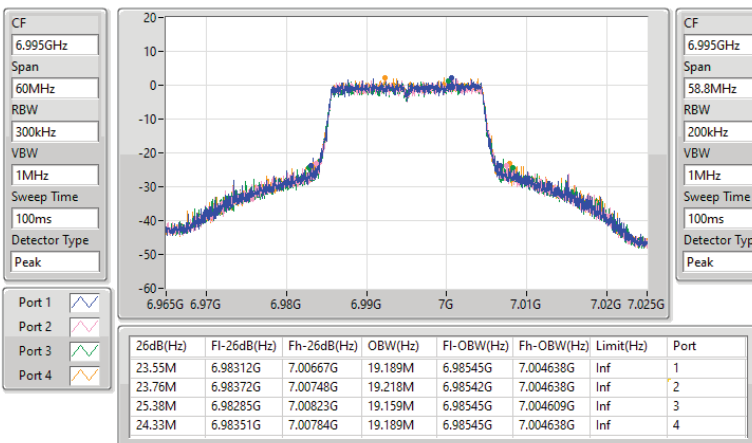
07/10/2022



6.875-7.125GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
6995MHz

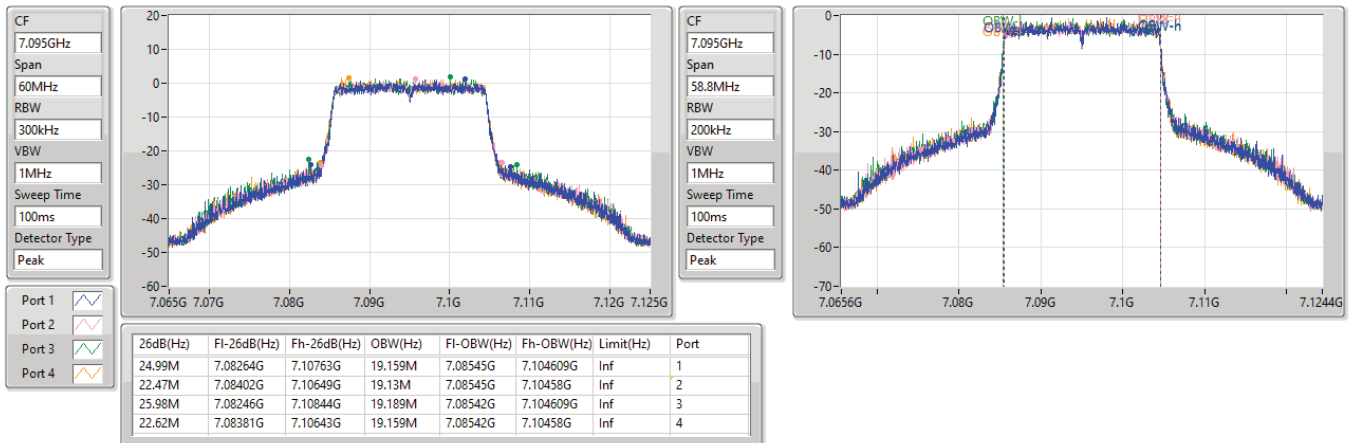
EBW

07/10/2022

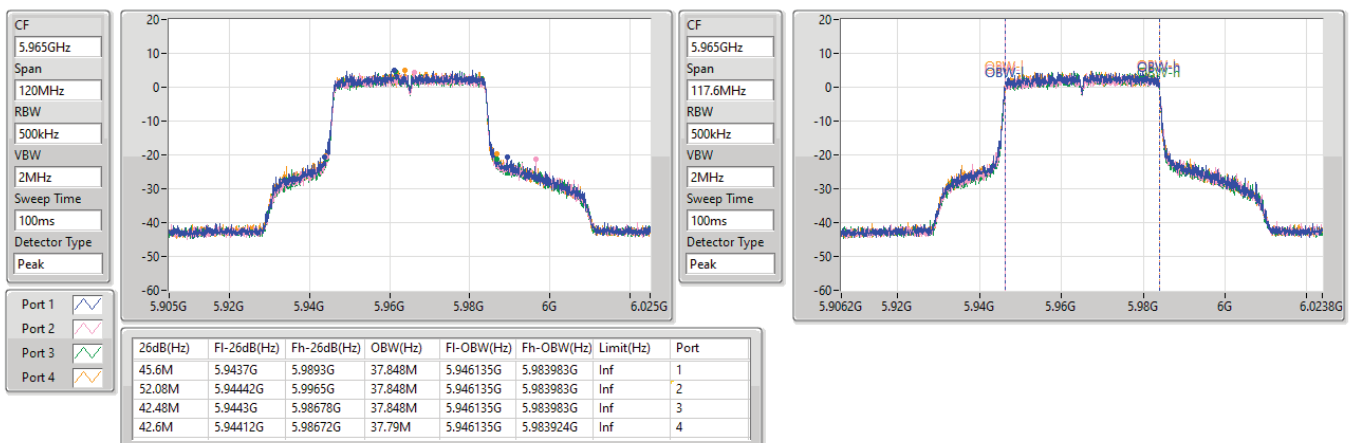


6.875-7.125GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
7095MHz

07/10/2022


5.925-6.425GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5965MHz

07/10/2022

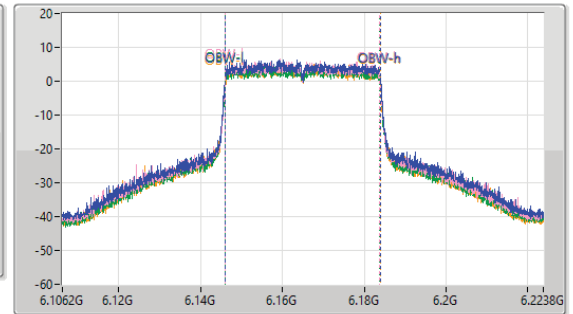
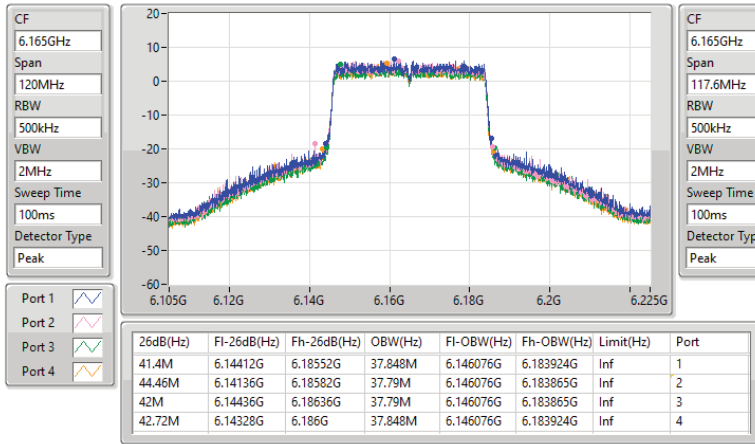


5.925-6.425GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6165MHz

11/10/2022

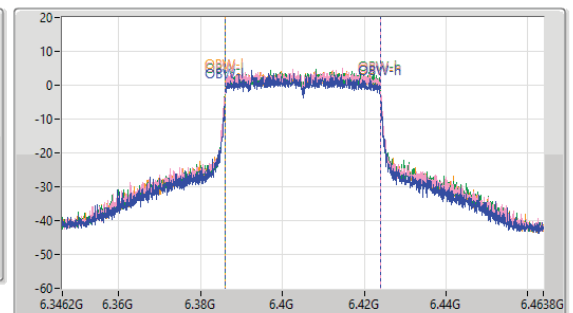
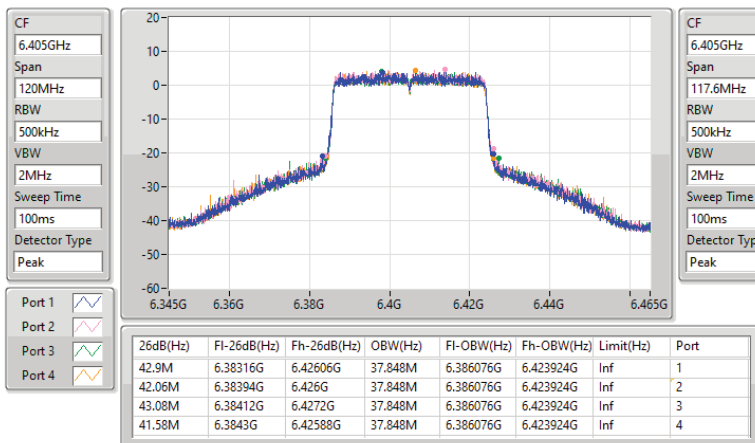


5.925-6.425GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6405MHz

07/10/2022

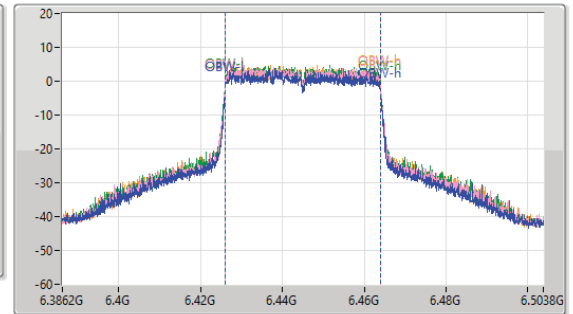
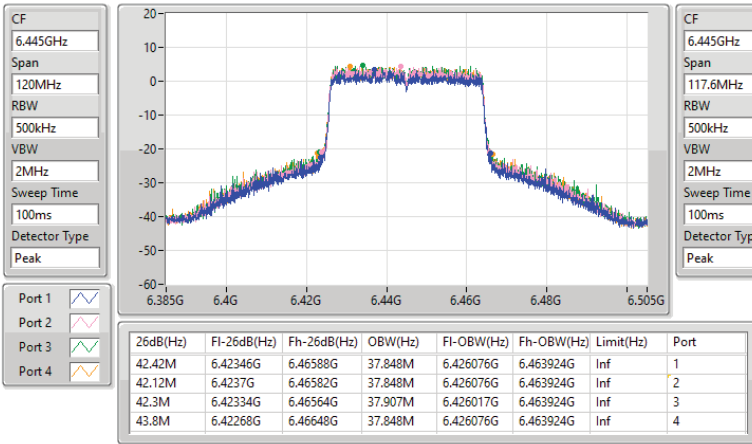


6.425-6.525GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6445MHz

07/10/2022

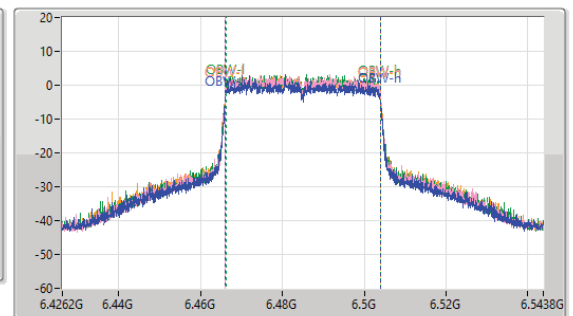
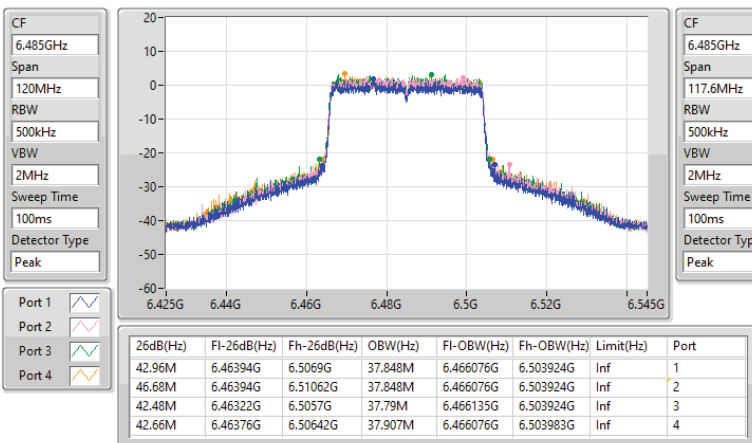


6.425-6.525GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6485MHz

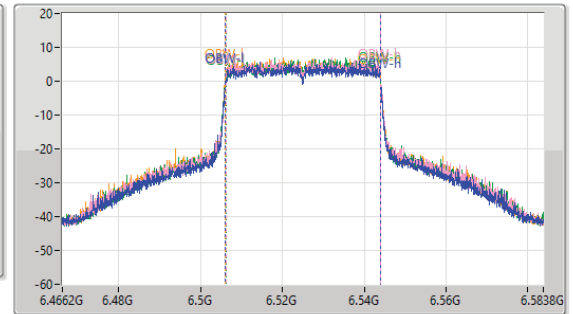
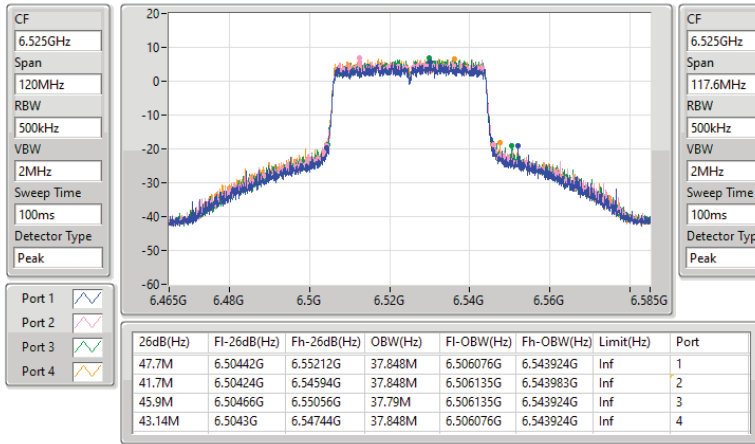
07/10/2022



6.425-6.525GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
6525MHz

EBW

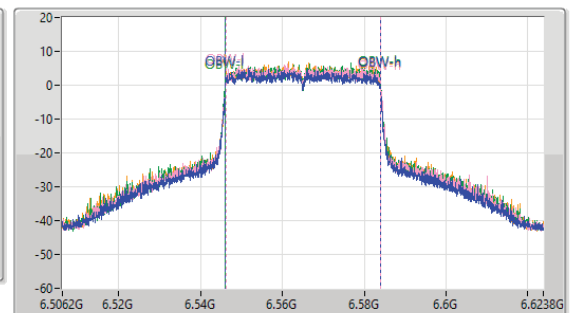
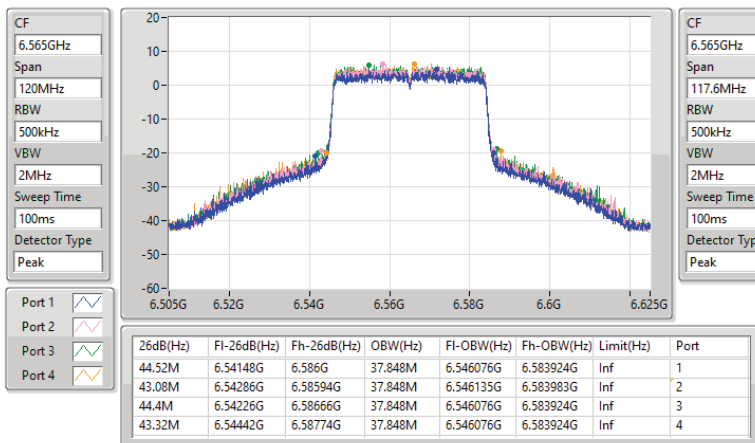
07/10/2022



6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
6565MHz

EBW

07/10/2022

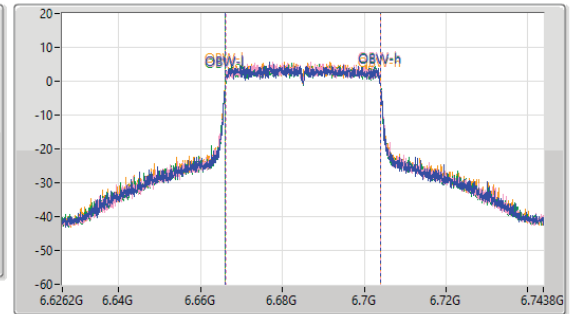
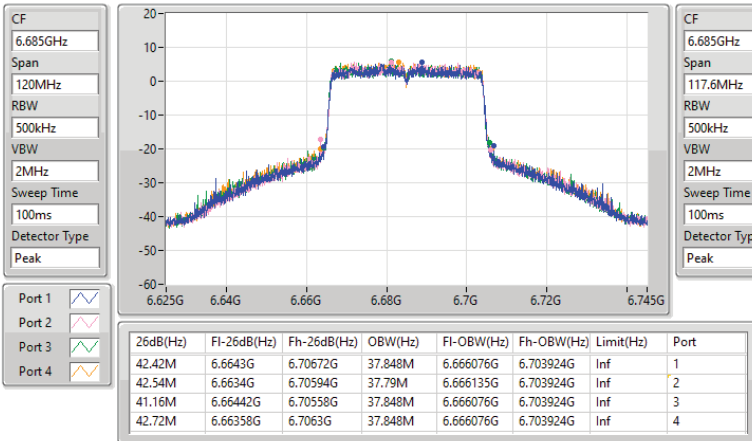


6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6685MHz

07/10/2022

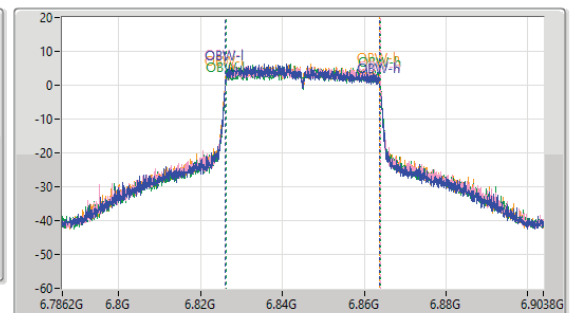
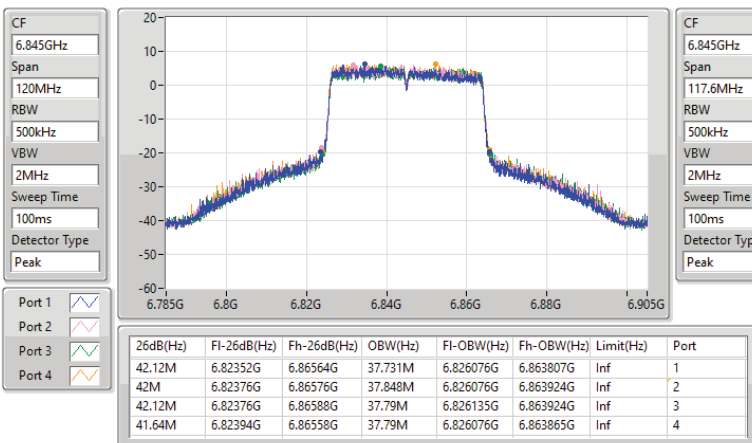


6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6845MHz

07/10/2022

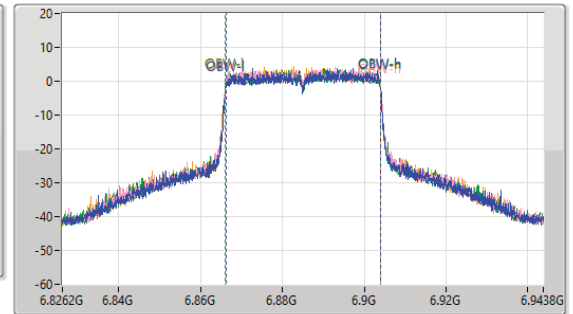
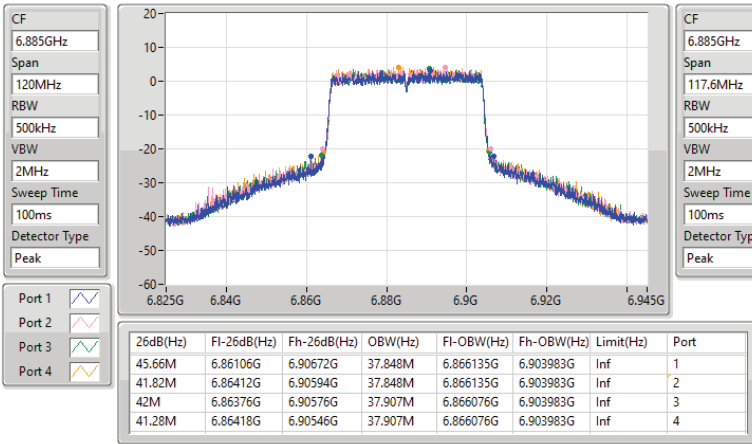


6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6885MHz

07/10/2022

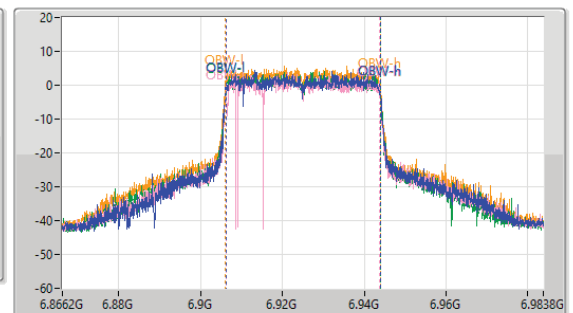
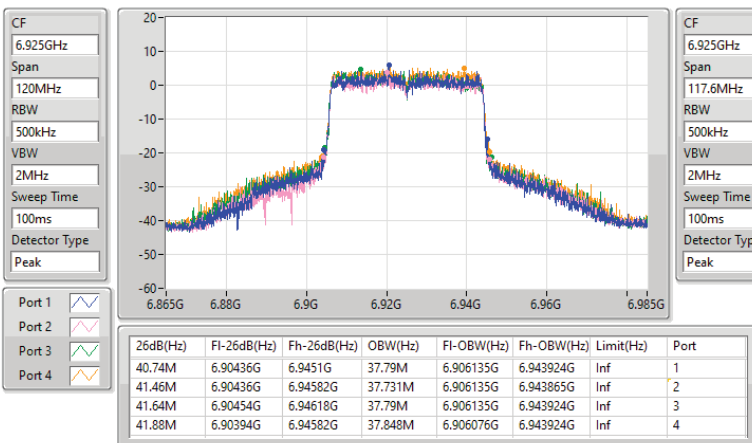


6.875-7.125GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6925MHz

07/10/2022

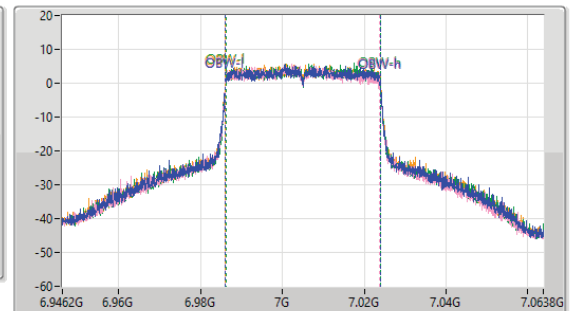
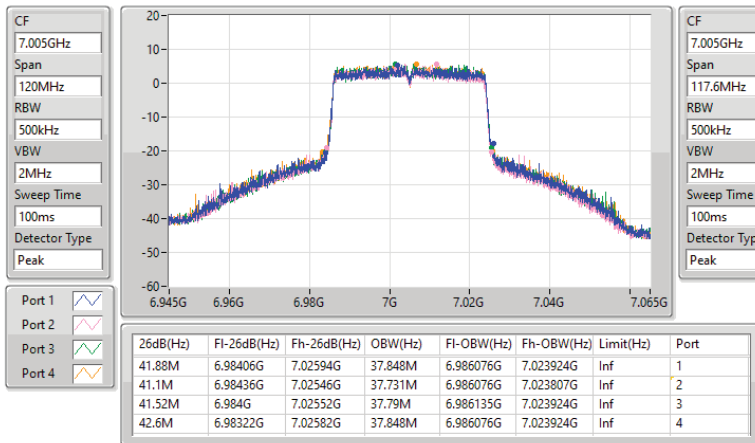


6.875-7.125GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

7005MHz

EBW

07/10/2022

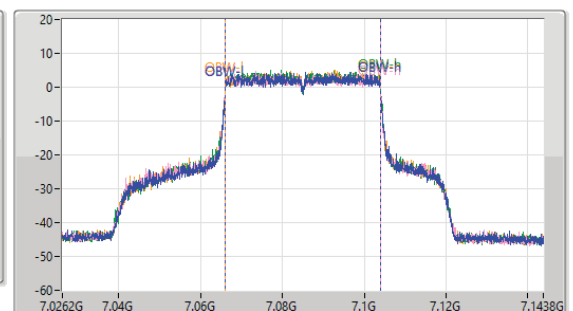
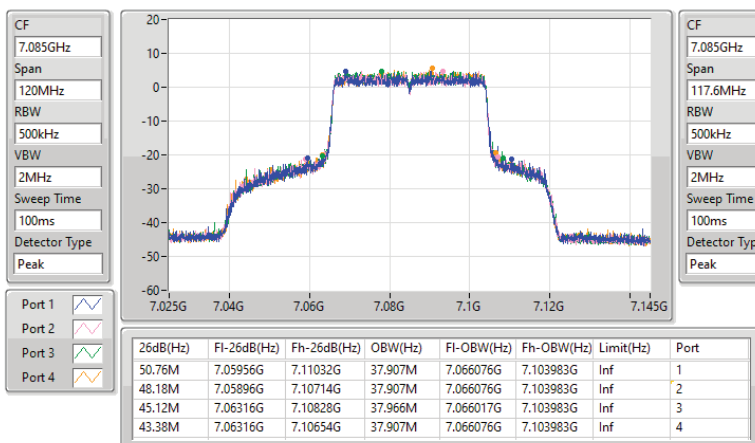


6.875-7.125GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

7085MHz

EBW

07/10/2022

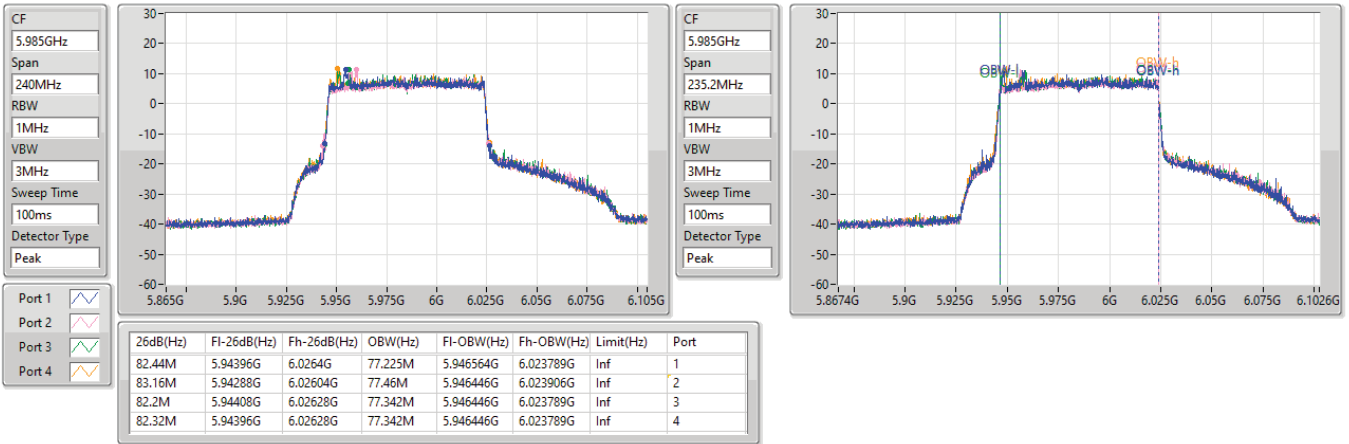


5.925-6.425GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5985MHz

07/10/2022

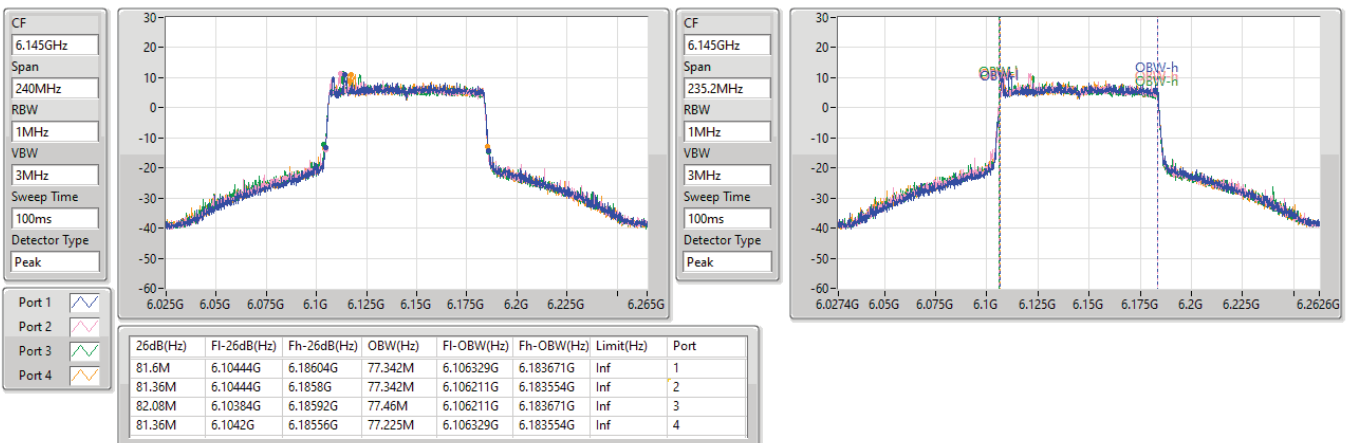


5.925-6.425GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

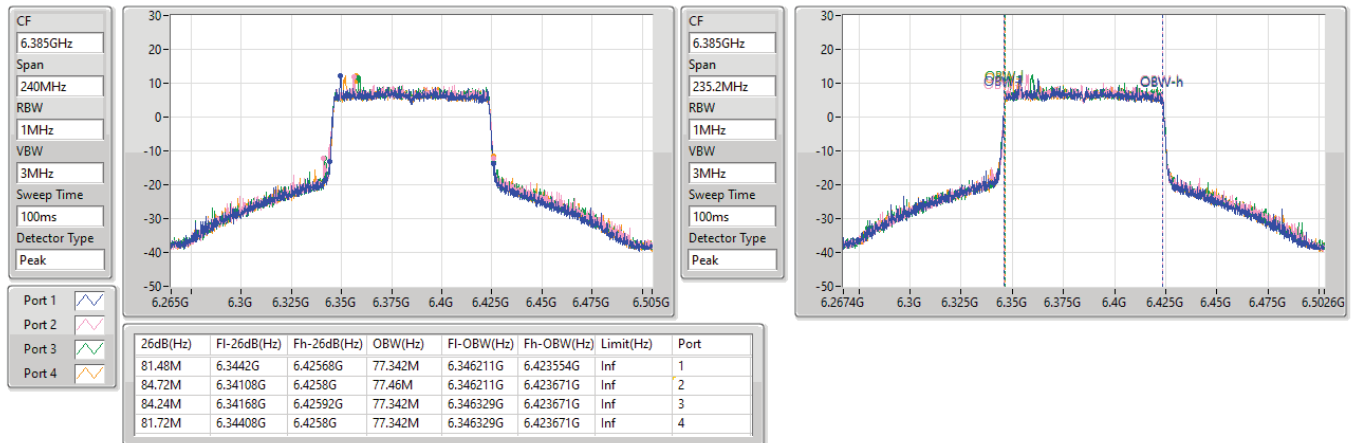
6145MHz

07/10/2022

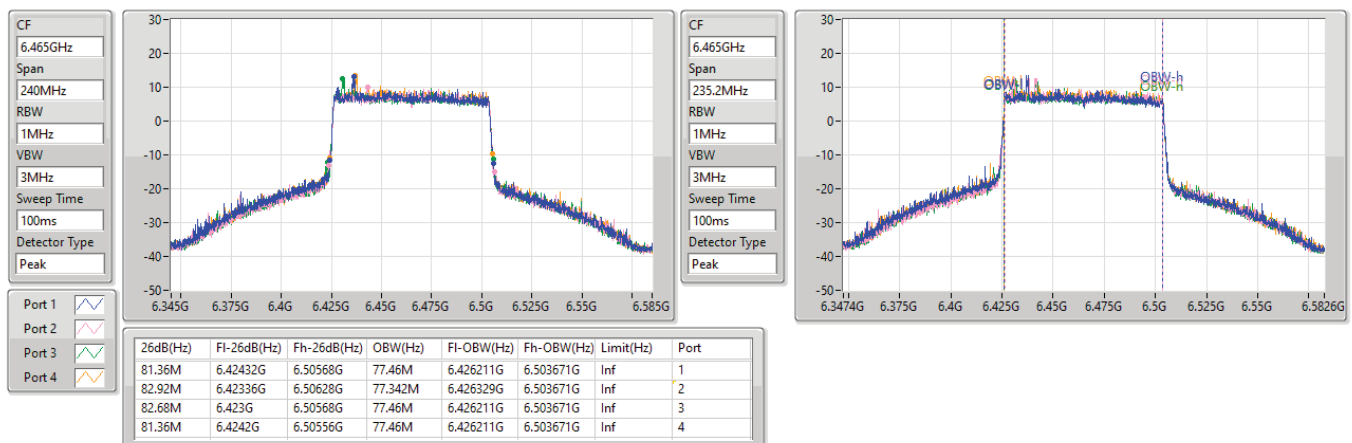


5.925-6.425GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
6385MHz

07/10/2022


6.425-6.525GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
6465MHz

07/10/2022

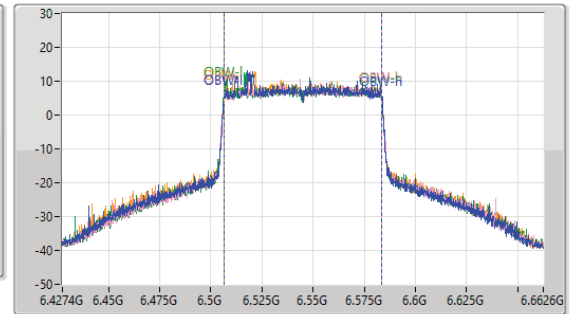
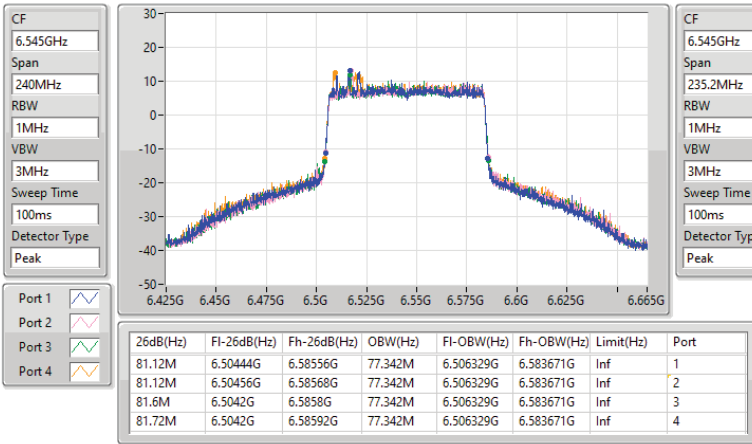


6.425-6.525GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6545MHz

07/10/2022

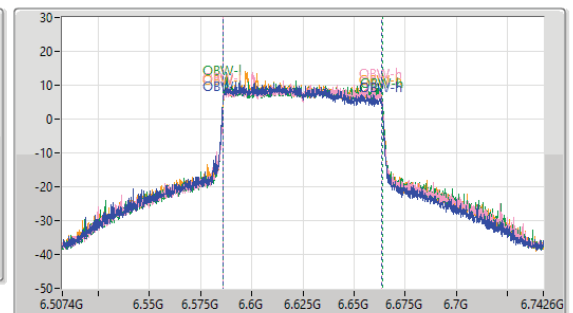
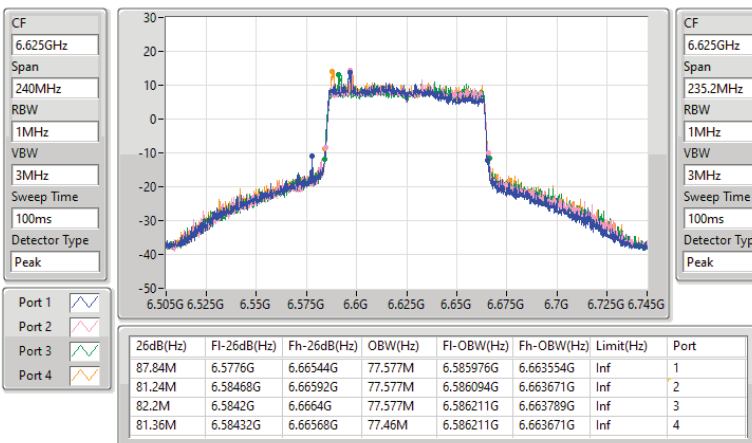


6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6625MHz

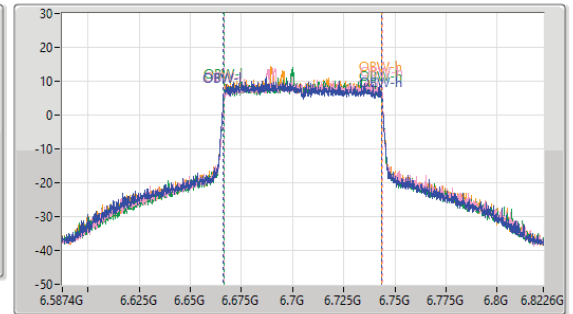
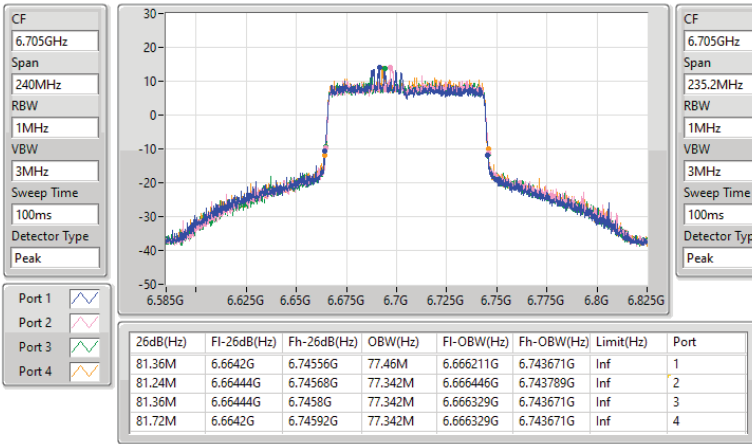
07/10/2022



6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
6705MHz

EBW

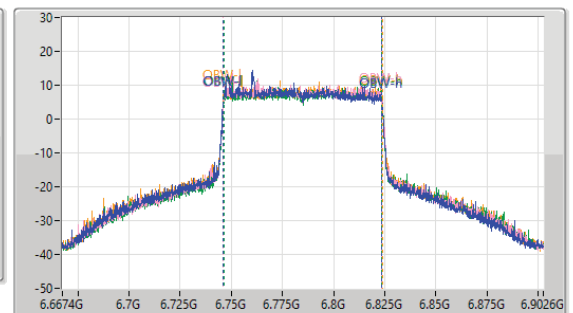
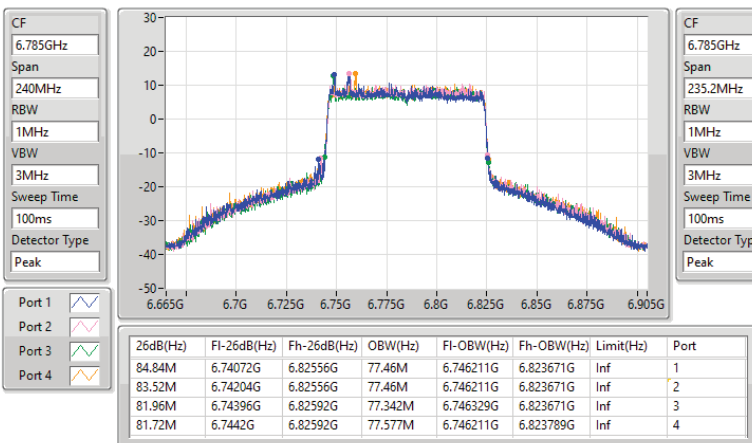
07/10/2022



6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
6785MHz

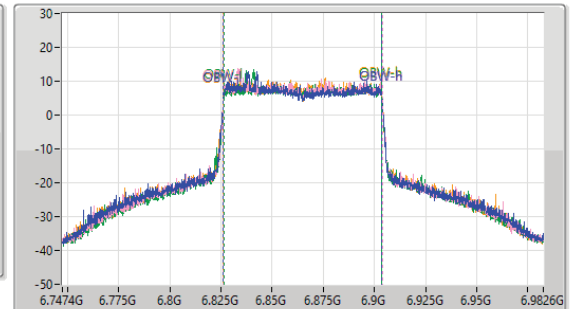
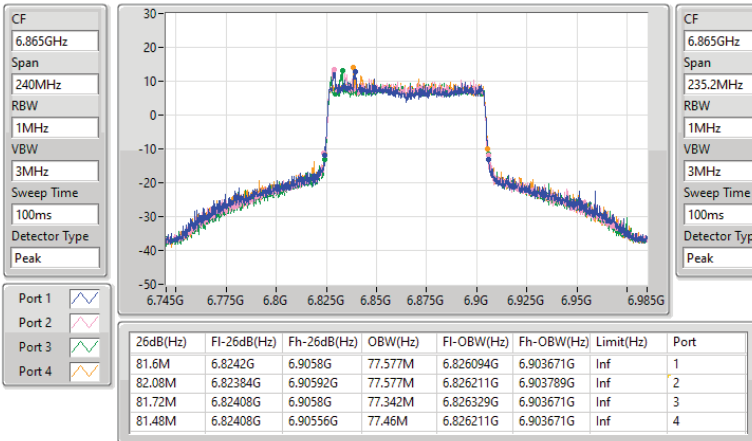
EBW

07/10/2022

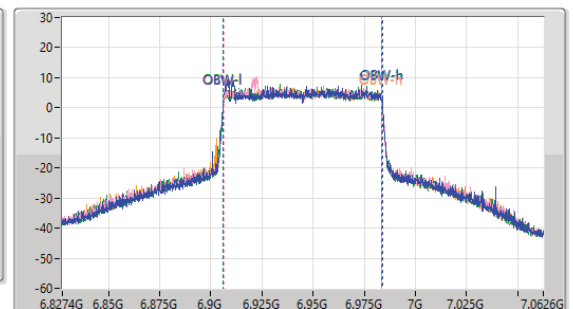
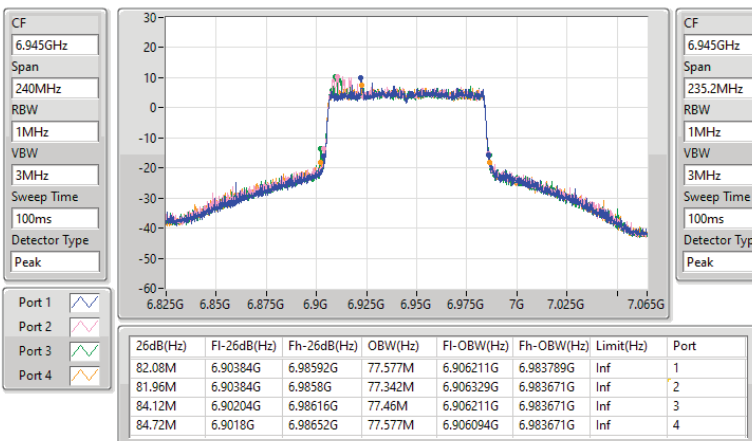


6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
6865MHz

07/10/2022

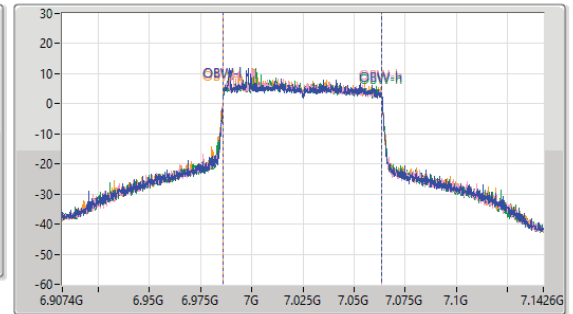
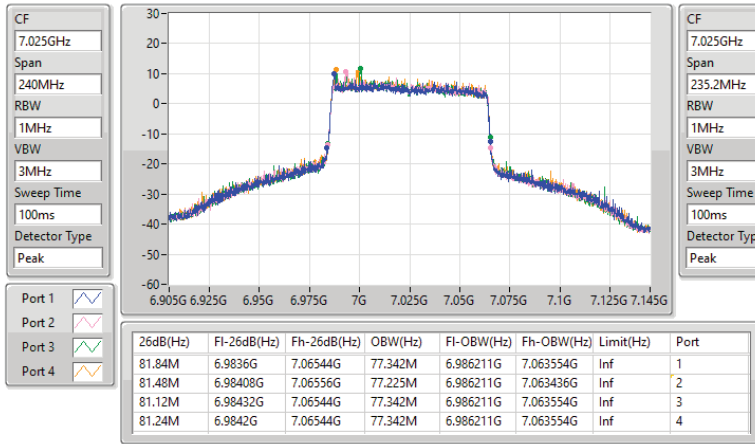

6.875-7.125GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
6945MHz

07/10/2022

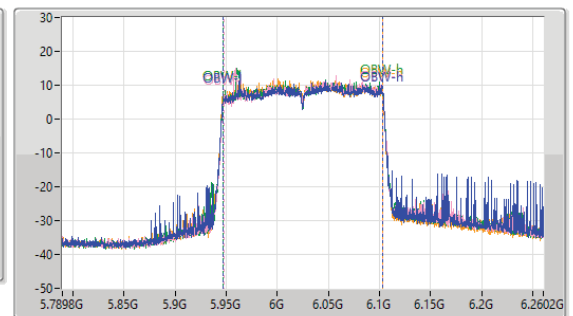
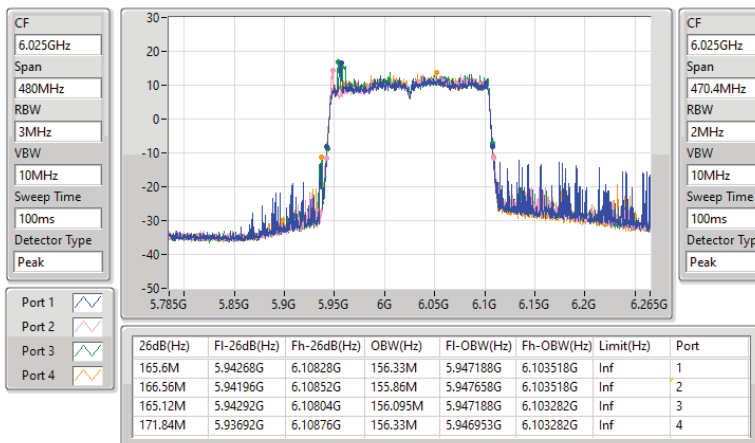


6.875-7.125GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
7025MHz
EBW

07/10/2022


5.925-6.425GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX
6025MHz
EBW

07/10/2022



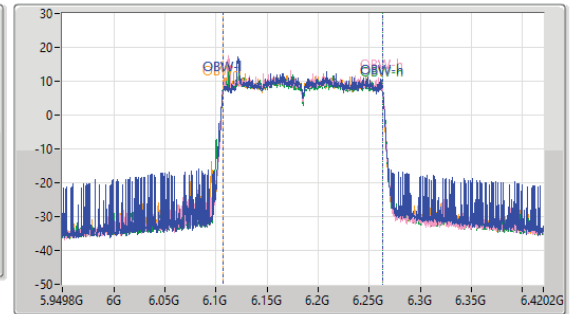


5.925-6.425GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6185MHz

07/10/2022

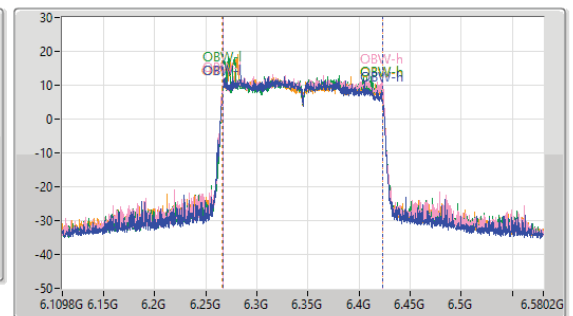
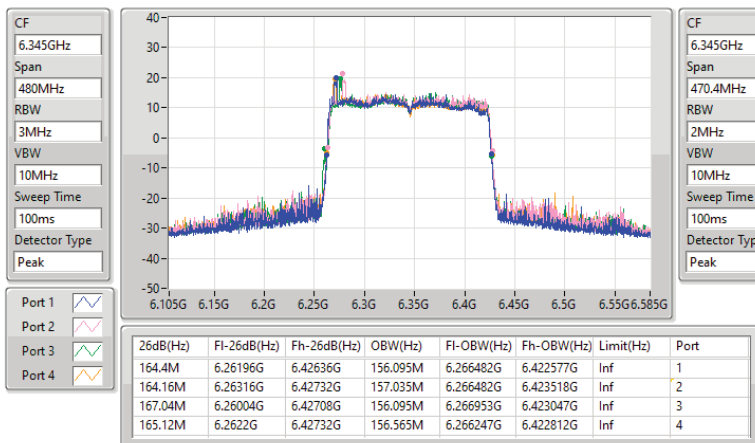


5.925-6.425GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6345MHz

07/10/2022



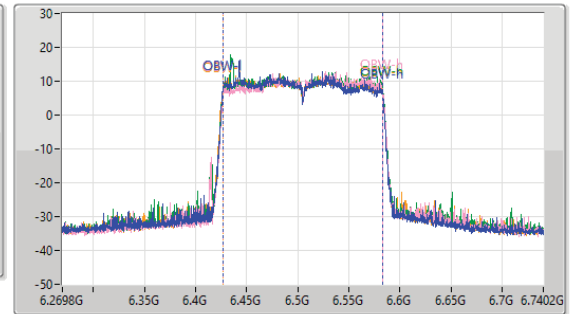
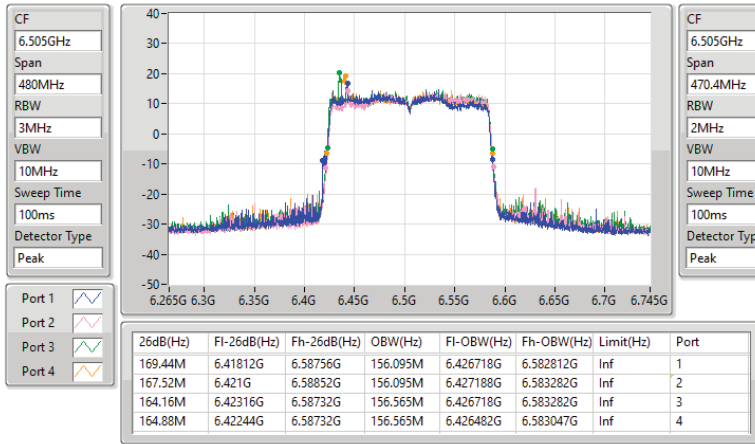


6.425-6.525GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6505MHz

07/10/2022

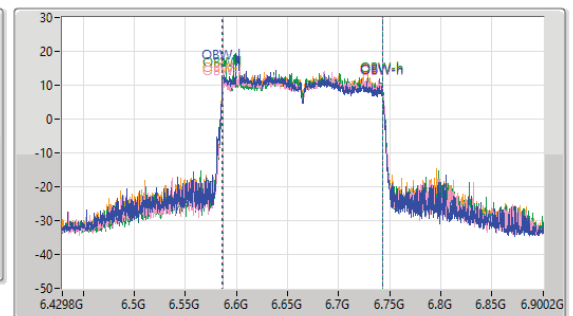
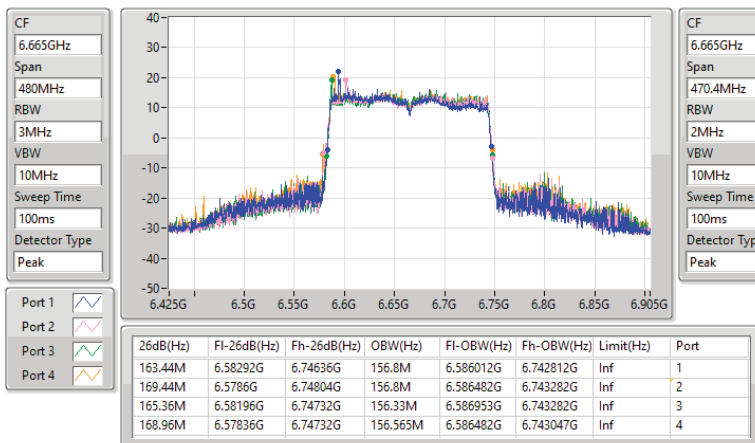


6.525-6.875GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6665MHz

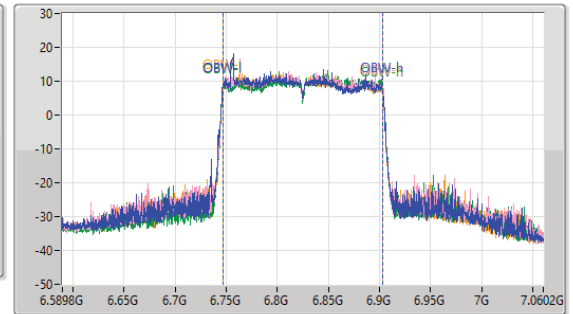
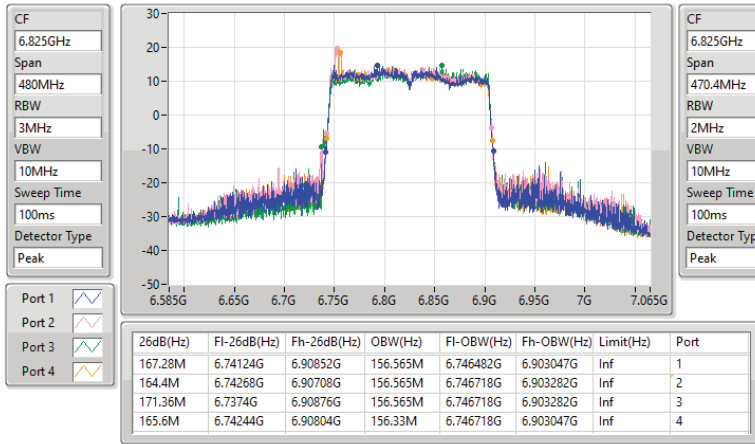
07/10/2022



6.525-6.875GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX
6825MHz

EBW

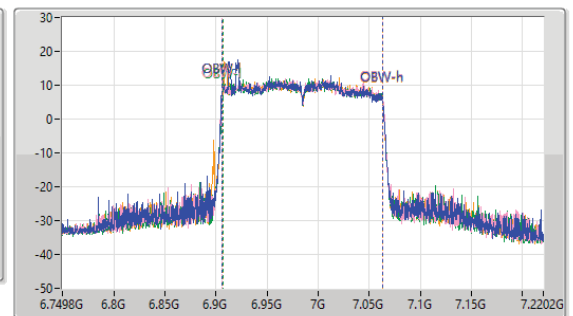
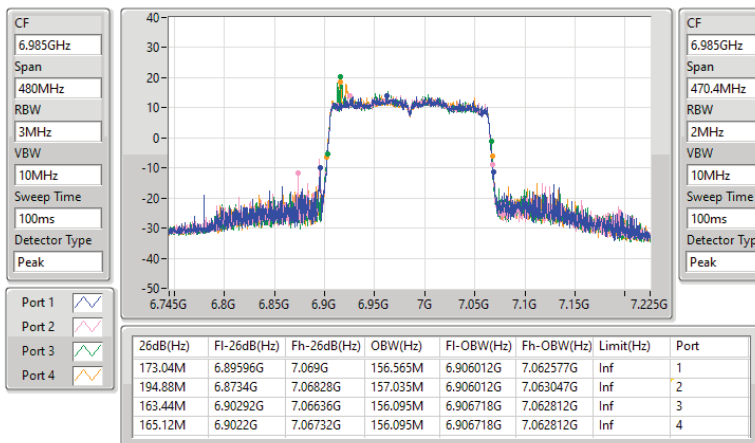
07/10/2022



6.875-7.125GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX
6985MHz

EBW

07/10/2022



**Summary**

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	16.08	0.04055
802.11ax HEW20_Nss4,(MCS0)_4TX	17.67	0.05848
802.11ax HEW40_Nss1,(MCS0)_4TX	17.65	0.05821
802.11ax HEW40_Nss4,(MCS0)_4TX	21.37	0.13709
802.11ax HEW80_Nss1,(MCS0)_4TX	21.93	0.15596
802.11ax HEW80_Nss4,(MCS0)_4TX	23.18	0.20797
802.11ax HEW160_Nss1,(MCS0)_4TX	24.51	0.28249
802.11ax HEW160_Nss4,(MCS0)_4TX	25.72	0.37325
6.425-6.525GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	16.53	0.04498
802.11ax HEW20_Nss4,(MCS0)_4TX	17.71	0.05902
802.11ax HEW40_Nss1,(MCS0)_4TX	18.00	0.06310
802.11ax HEW40_Nss4,(MCS0)_4TX	21.05	0.12735
802.11ax HEW80_Nss1,(MCS0)_4TX	21.41	0.13836
802.11ax HEW80_Nss4,(MCS0)_4TX	23.73	0.23605
802.11ax HEW160_Nss1,(MCS0)_4TX	23.56	0.22699
802.11ax HEW160_Nss4,(MCS0)_4TX	24.73	0.29717
6.525-6.875GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	15.01	0.03170
802.11ax HEW20_Nss4,(MCS0)_4TX	18.42	0.06950
802.11ax HEW40_Nss1,(MCS0)_4TX	19.10	0.08128
802.11ax HEW40_Nss4,(MCS0)_4TX	20.72	0.11803
802.11ax HEW80_Nss1,(MCS0)_4TX	22.98	0.19861
802.11ax HEW80_Nss4,(MCS0)_4TX	23.42	0.21979
802.11ax HEW160_Nss1,(MCS0)_4TX	23.95	0.24831
802.11ax HEW160_Nss4,(MCS0)_4TX	26.47	0.44361
6.875-7.125GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	16.92	0.04920
802.11ax HEW20_Nss4,(MCS0)_4TX	17.43	0.05534
802.11ax HEW40_Nss1,(MCS0)_4TX	19.63	0.09183
802.11ax HEW40_Nss4,(MCS0)_4TX	22.50	0.17783
802.11ax HEW80_Nss1,(MCS0)_4TX	20.61	0.11508
802.11ax HEW80_Nss4,(MCS0)_4TX	23.20	0.20893
802.11ax HEW160_Nss1,(MCS0)_4TX	22.94	0.19679
802.11ax HEW160_Nss4,(MCS0)_4TX	23.50	0.22387



Average Power_Non-Beamforming

Appendix C.1

Result

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-
5955MHz	Pass	15.85	30.00
6175MHz	Pass	14.28	30.00
6415MHz	Pass	16.08	30.00
6435MHz	Pass	14.97	30.00
6475MHz	Pass	16.53	30.00
6515MHz	Pass	15.85	30.00
6535MHz	Pass	14.79	30.00
6695MHz	Pass	15.01	30.00
6855MHz	Pass	14.77	30.00
6875MHz	Pass	14.81	30.00
6895MHz	Pass	16.92	30.00
6995MHz	Pass	14.22	30.00
7095MHz	Pass	16.37	30.00
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-
5955MHz	Pass	17.67	30.00
6175MHz	Pass	17.27	30.00
6415MHz	Pass	17.20	30.00
6435MHz	Pass	17.40	30.00
6475MHz	Pass	17.71	30.00
6515MHz	Pass	17.33	30.00
6535MHz	Pass	17.50	30.00
6695MHz	Pass	18.42	30.00
6855MHz	Pass	17.81	30.00
6875MHz	Pass	17.48	30.00
6895MHz	Pass	17.21	30.00
6995MHz	Pass	17.26	30.00
7095MHz	Pass	17.43	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-
5965MHz	Pass	17.08	30.00
6165MHz	Pass	17.33	30.00
6405MHz	Pass	17.65	30.00
6445MHz	Pass	18.00	30.00
6485MHz	Pass	17.93	30.00
6525MHz	Pass	17.70	30.00
6565MHz	Pass	18.13	30.00
6685MHz	Pass	17.55	30.00
6845MHz	Pass	18.19	30.00
6885MHz	Pass	19.10	30.00
6925MHz	Pass	17.29	30.00
7005MHz	Pass	19.63	30.00
7085MHz	Pass	19.39	30.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-
5965MHz	Pass	21.37	30.00
6165MHz	Pass	20.83	30.00
6405MHz	Pass	21.23	30.00
6445MHz	Pass	19.85	30.00
6485MHz	Pass	21.05	30.00
6525MHz	Pass	20.52	30.00
6565MHz	Pass	20.72	30.00
6685MHz	Pass	20.72	30.00
6845MHz	Pass	20.33	30.00
6885MHz	Pass	20.04	30.00
6925MHz	Pass	22.14	30.00
7005MHz	Pass	19.73	30.00



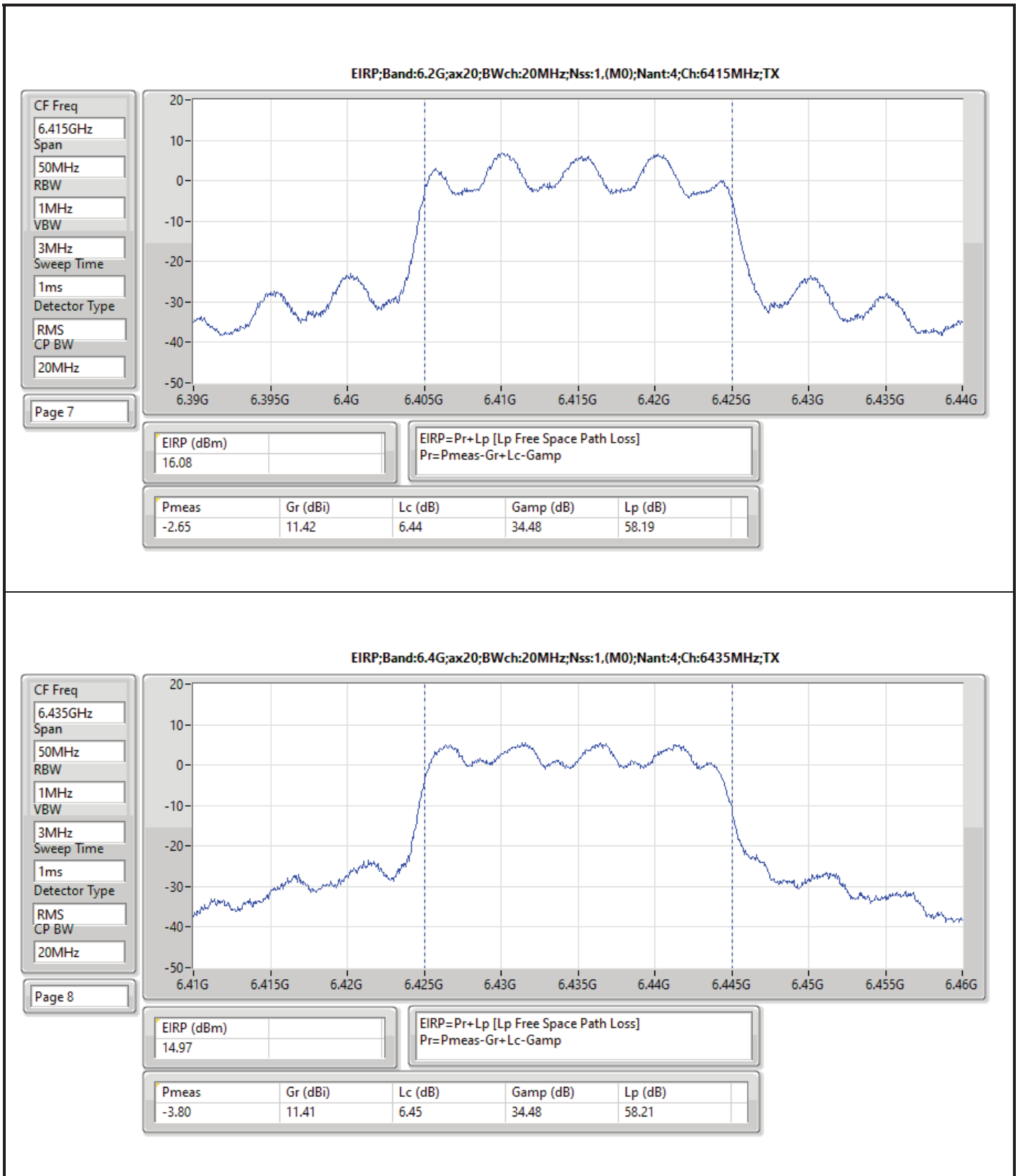
Average Power_Non-Beamforming

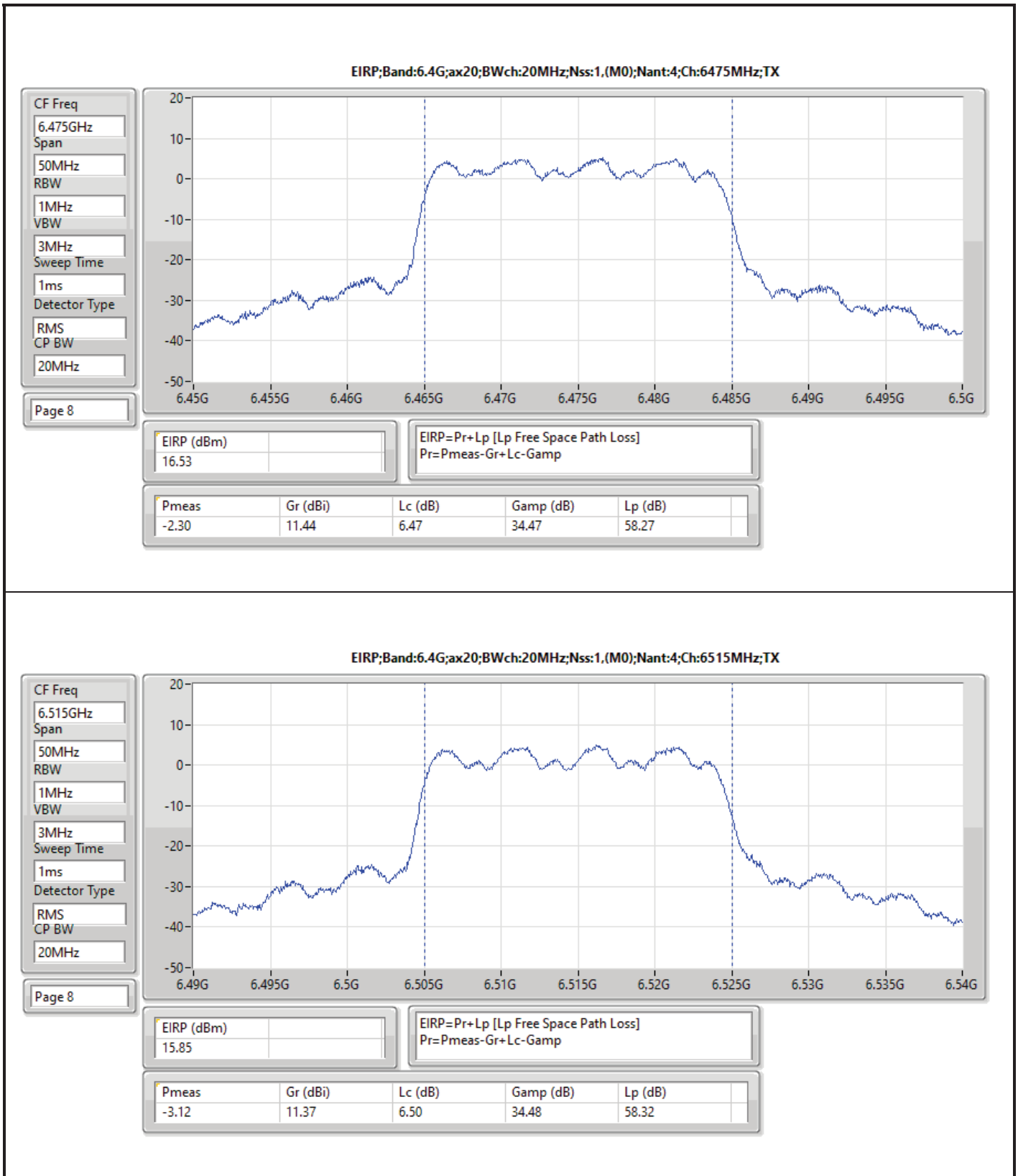
Appendix C.1

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
7085MHz	Pass	22.50	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-
5985MHz	Pass	21.93	30.00
6145MHz	Pass	21.37	30.00
6385MHz	Pass	19.71	30.00
6465MHz	Pass	21.41	30.00
6545MHz	Pass	20.72	30.00
6625MHz	Pass	21.27	30.00
6705MHz	Pass	20.40	30.00
6785MHz	Pass	21.88	30.00
6865MHz	Pass	22.98	30.00
6945MHz	Pass	20.31	30.00
7025MHz	Pass	20.61	30.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-
5985MHz	Pass	22.86	30.00
6145MHz	Pass	22.91	30.00
6385MHz	Pass	23.18	30.00
6465MHz	Pass	23.73	30.00
6545MHz	Pass	23.04	30.00
6625MHz	Pass	23.04	30.00
6705MHz	Pass	23.42	30.00
6785MHz	Pass	23.12	30.00
6865MHz	Pass	22.93	30.00
6945MHz	Pass	20.37	30.00
7025MHz	Pass	23.20	30.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-
6025MHz	Pass	24.51	30.00
6185MHz	Pass	24.07	30.00
6345MHz	Pass	23.03	30.00
6505MHz	Pass	23.56	30.00
6665MHz	Pass	23.14	30.00
6825MHz	Pass	23.95	30.00
6985MHz	Pass	22.94	30.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-
6025MHz	Pass	24.75	30.00
6185MHz	Pass	25.72	30.00
6345MHz	Pass	24.15	30.00
6505MHz	Pass	24.73	30.00
6665MHz	Pass	26.47	30.00
6825MHz	Pass	25.24	30.00
6985MHz	Pass	23.50	30.00

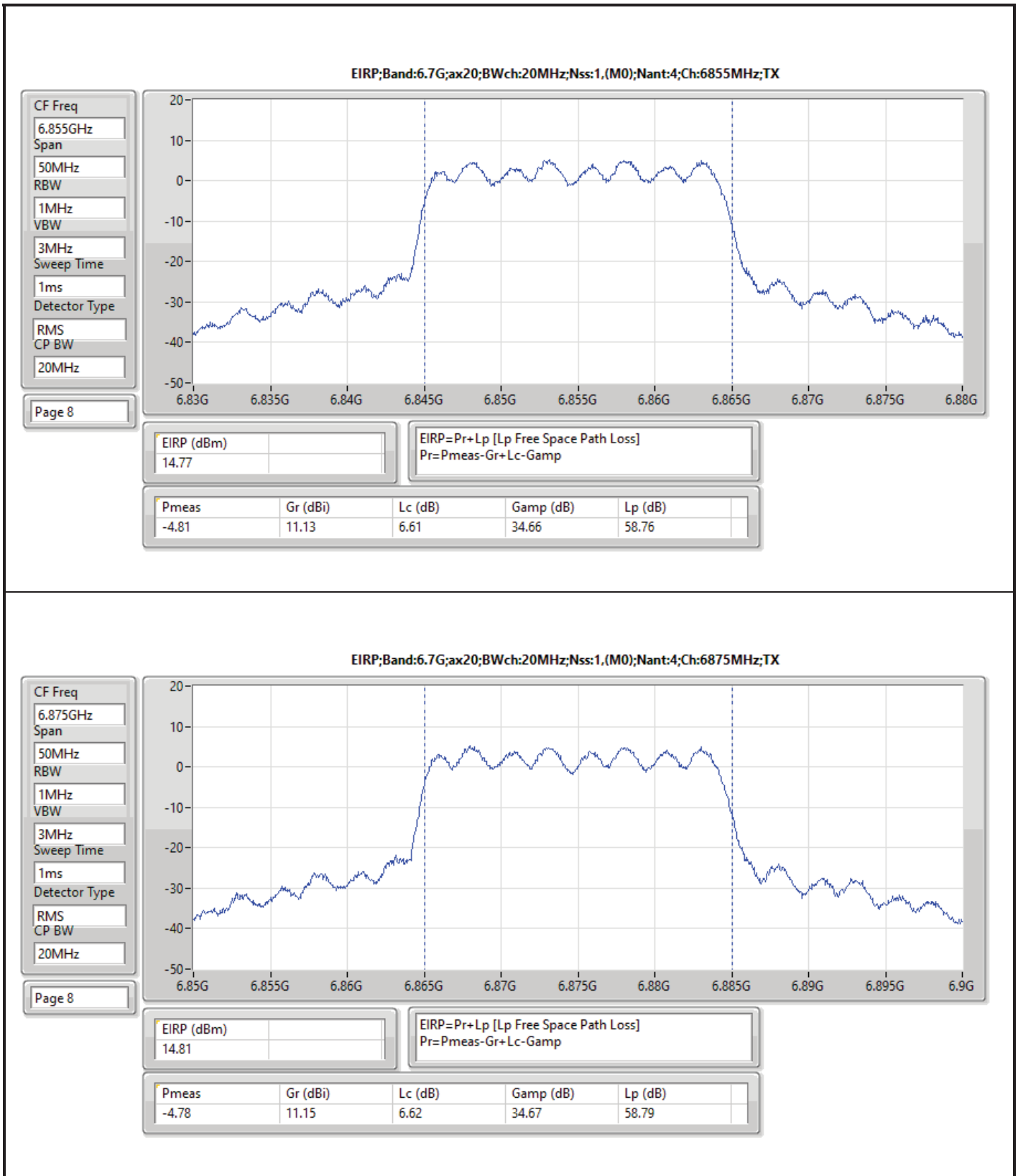
DG = Directional Gain; Port X = Port X output power

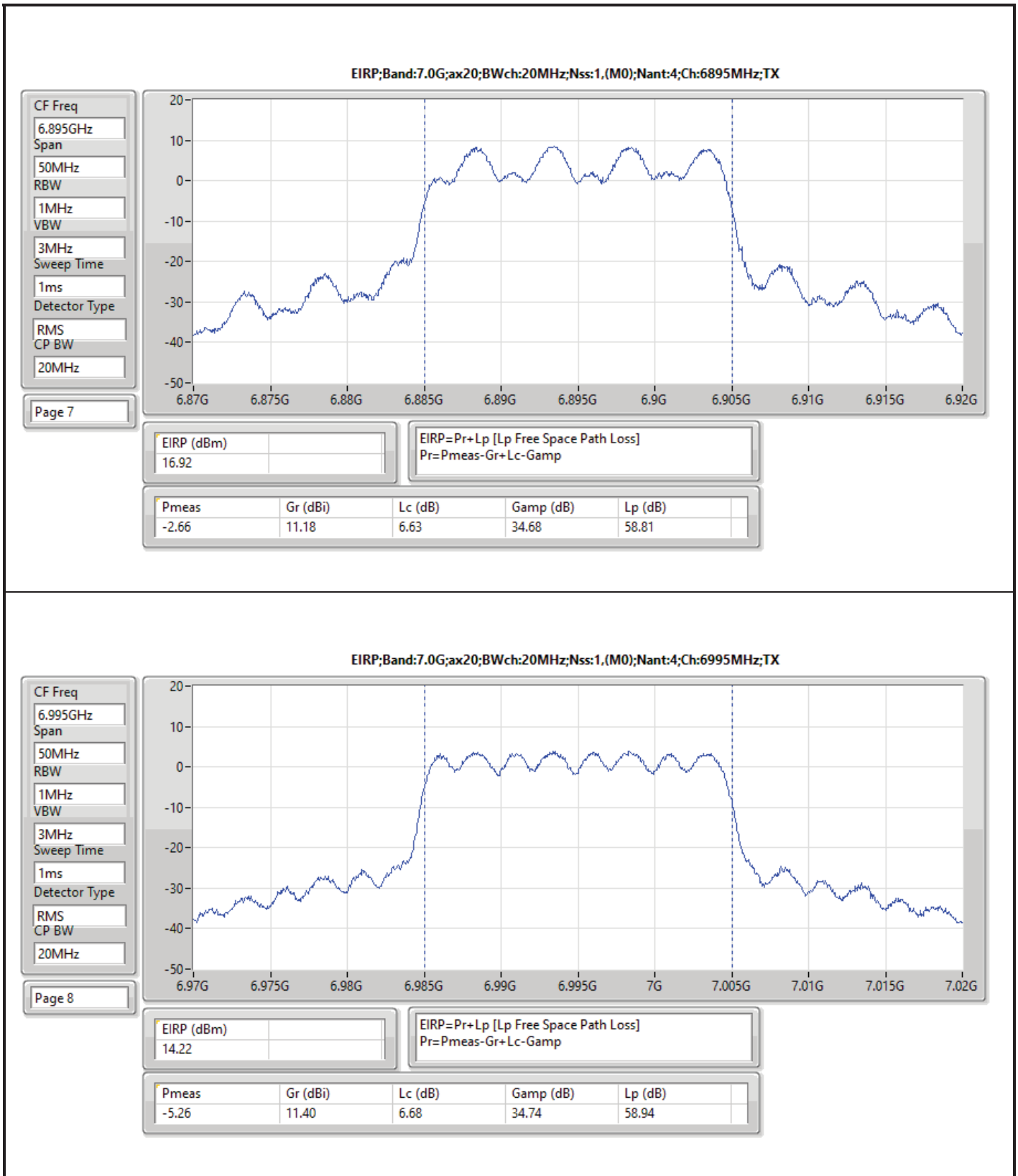


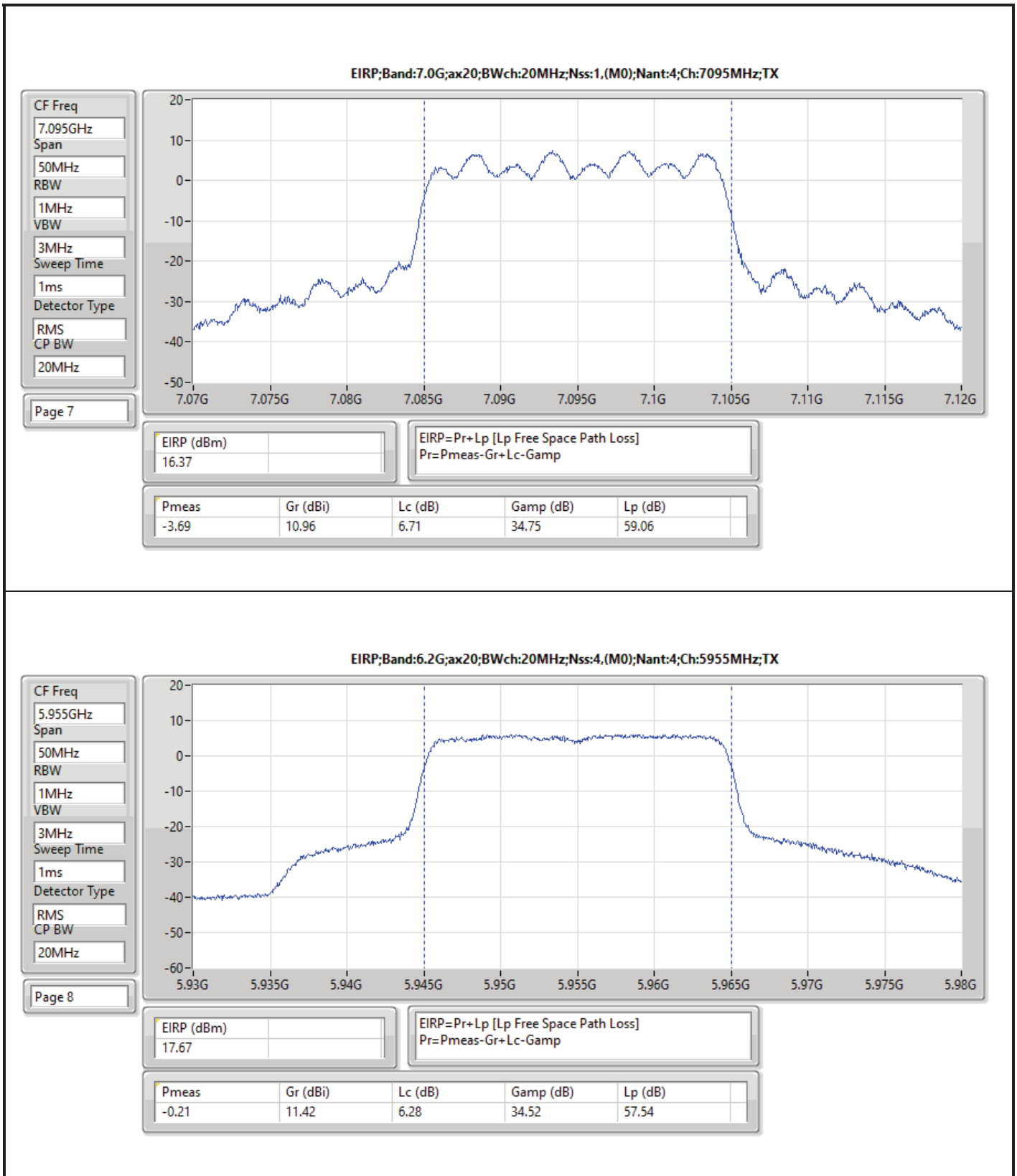












CF Freq

5.955GHz

Span

50MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1ms

Detector Type

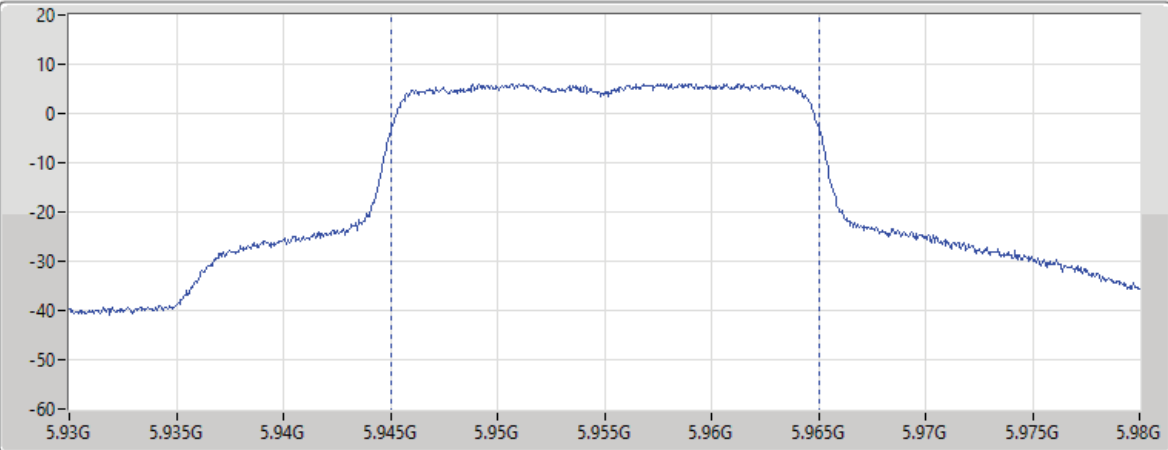
RMS

CP BW

20MHz

Page 8

EIRP;Band:6.2G;ax20;BWch:20MHz;Nss:4,(M0);Nant:4;Ch:5955MHz;TX



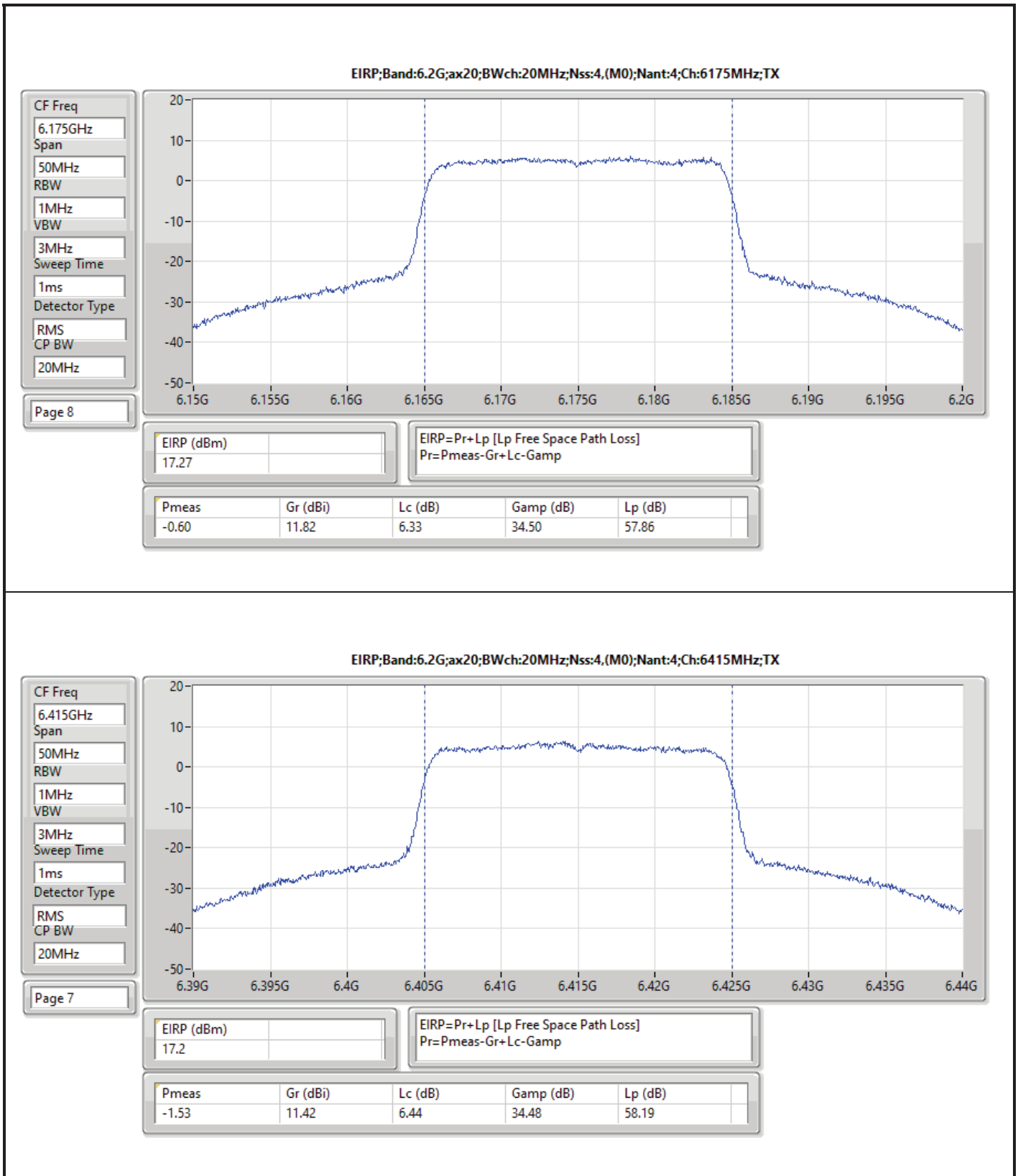
EIRP (dBm)

17.67

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-0.21	11.42	6.28	34.52	57.54



CF Freq

6.415GHz

Span

50MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1ms

Detector Type

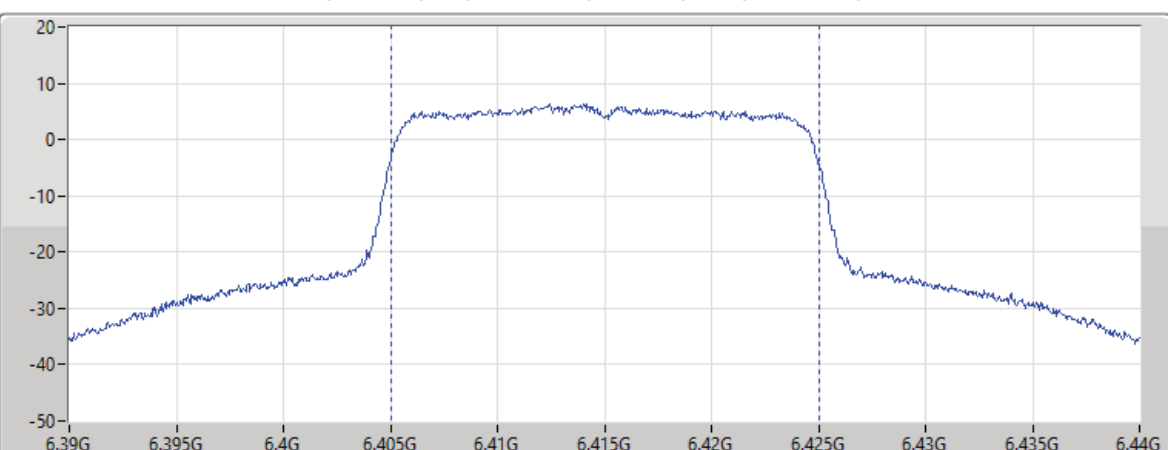
RMS

CP BW

20MHz

Page 7

EIRP;Band:6.2G;ax20;BWch:20MHz;Nss:4,(M0);Nant:4;Ch:6415MHz;TX



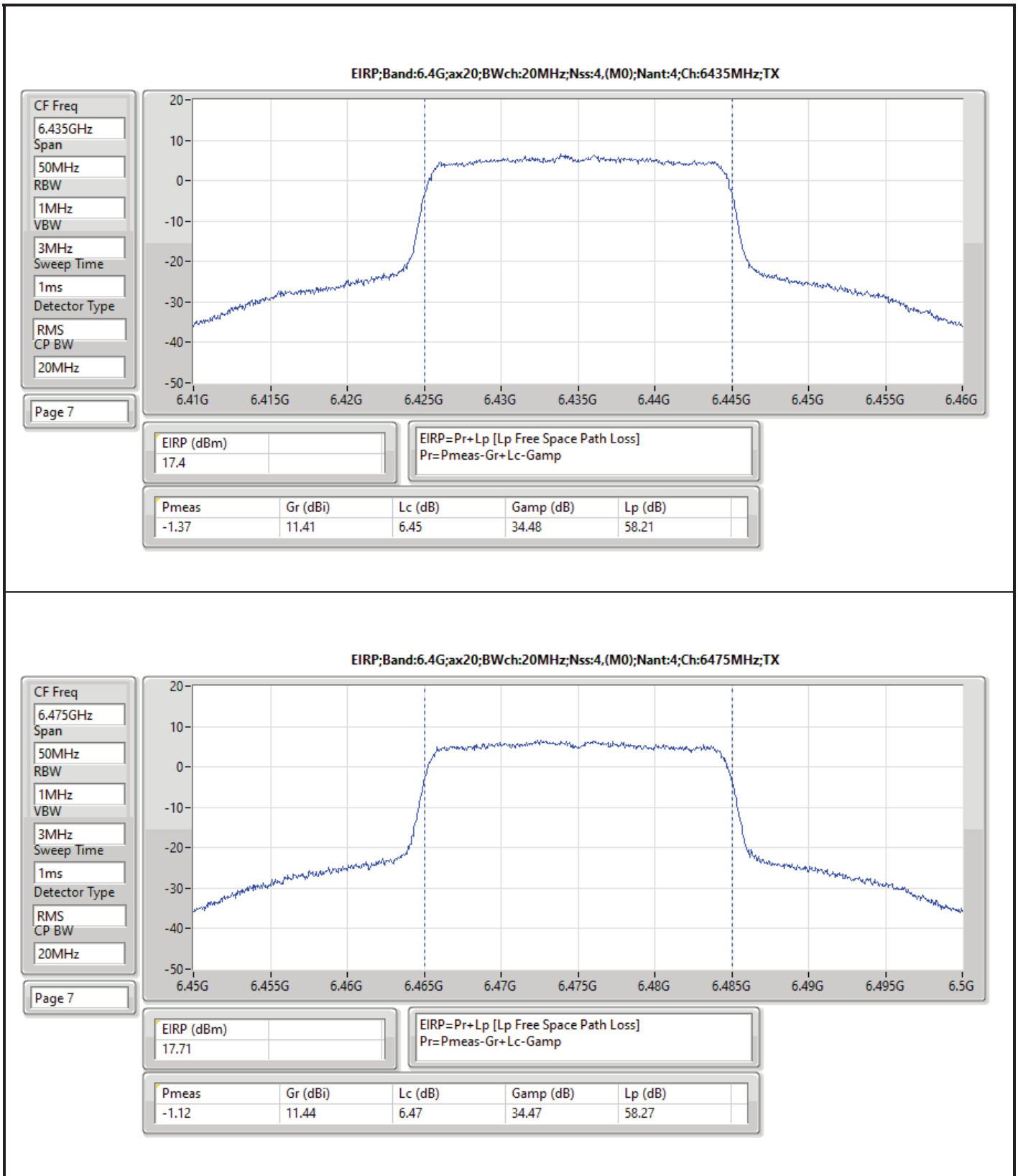
EIRP (dBm)

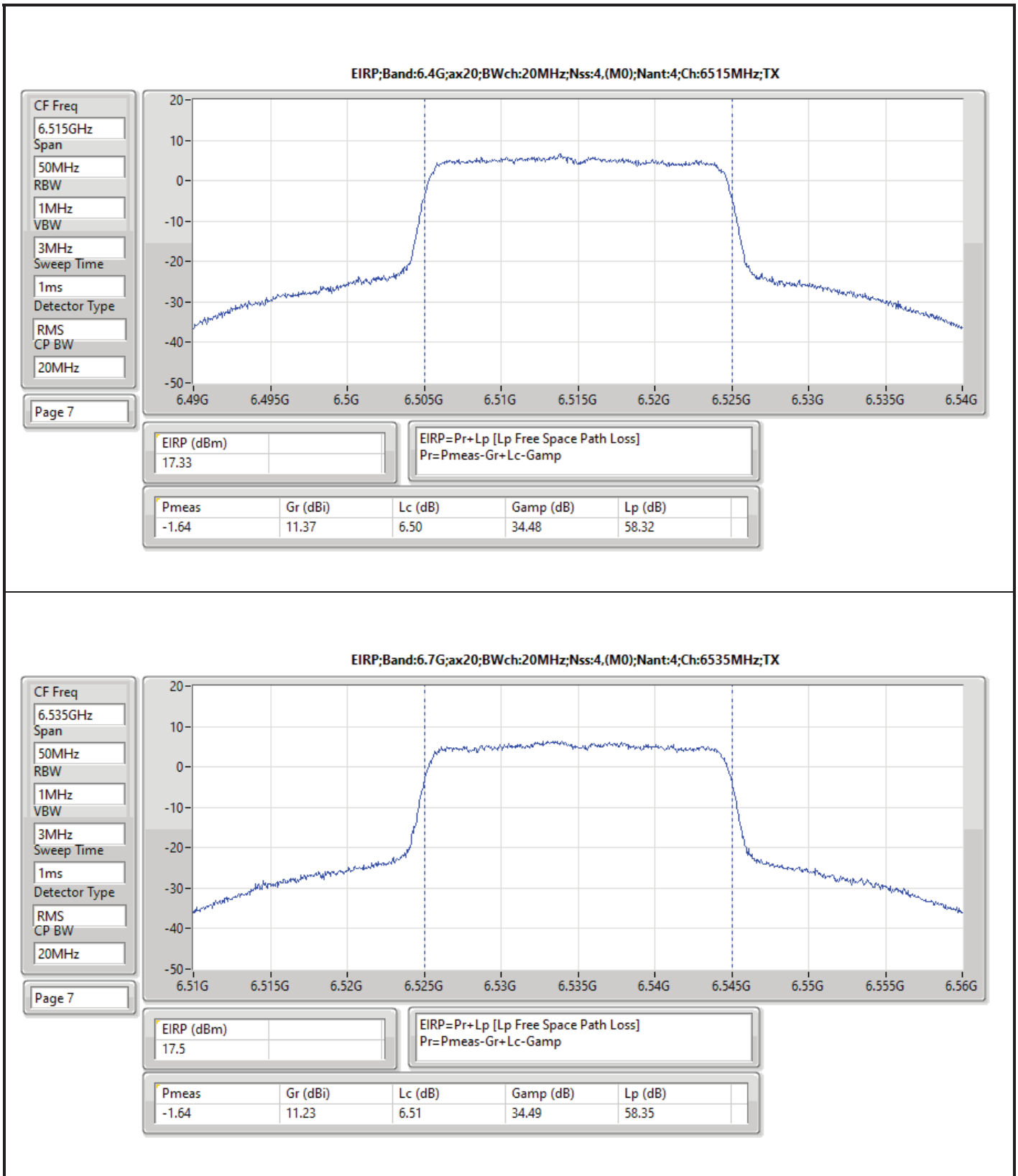
17.2

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-1.53	11.42	6.44	34.48	58.19





CF Freq

6.535GHz

Span

50MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1ms

Detector Type

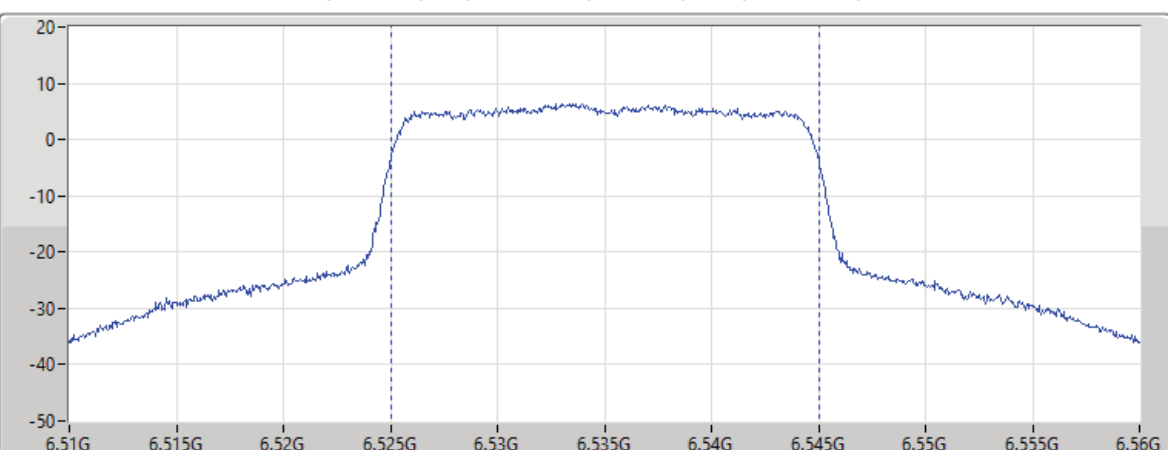
RMS

CP BW

20MHz

Page 7

EIRP;Band:6.7G;ax20;BWch:20MHz;Nss:4,(M0);Nant:4;Ch:6535MHz;TX



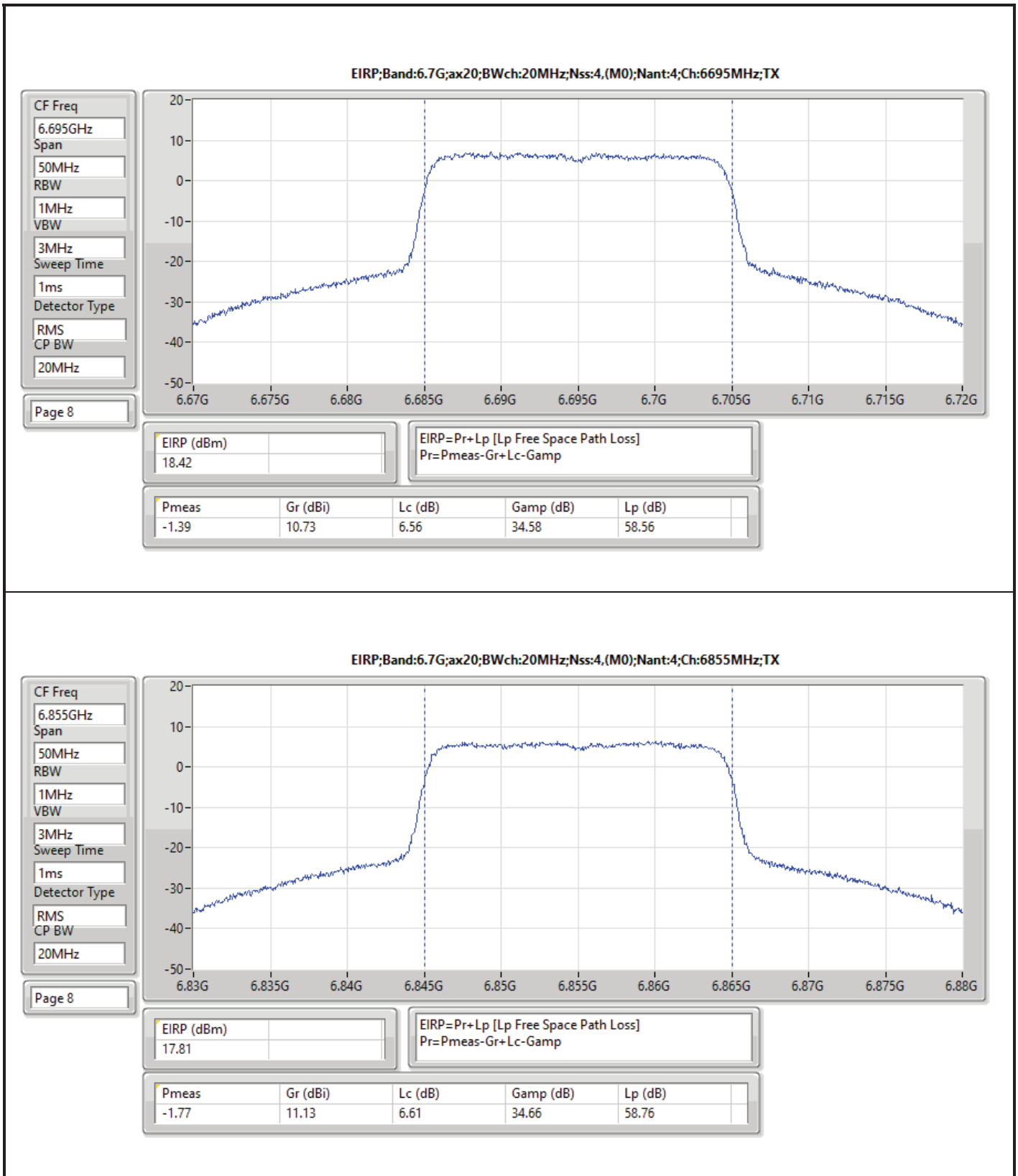
EIRP (dBm)

17.5

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-1.64	11.23	6.51	34.49	58.35



CF Freq

6.855GHz

Span

50MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1ms

Detector Type

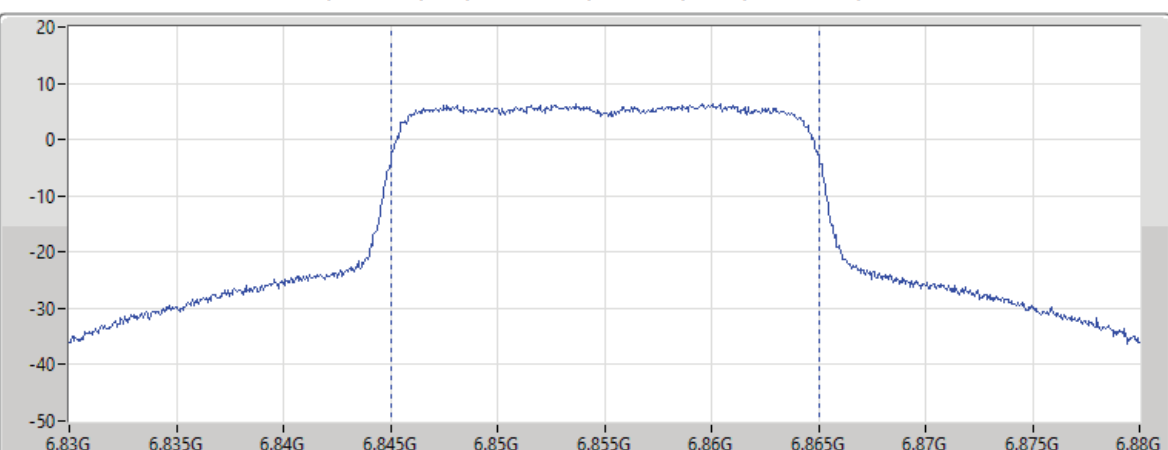
RMS

CP BW

20MHz

Page 8

EIRP;Band:6.7G;ax20;BWch:20MHz;Nss:4,(M0);Nant:4;Ch:6855MHz;TX



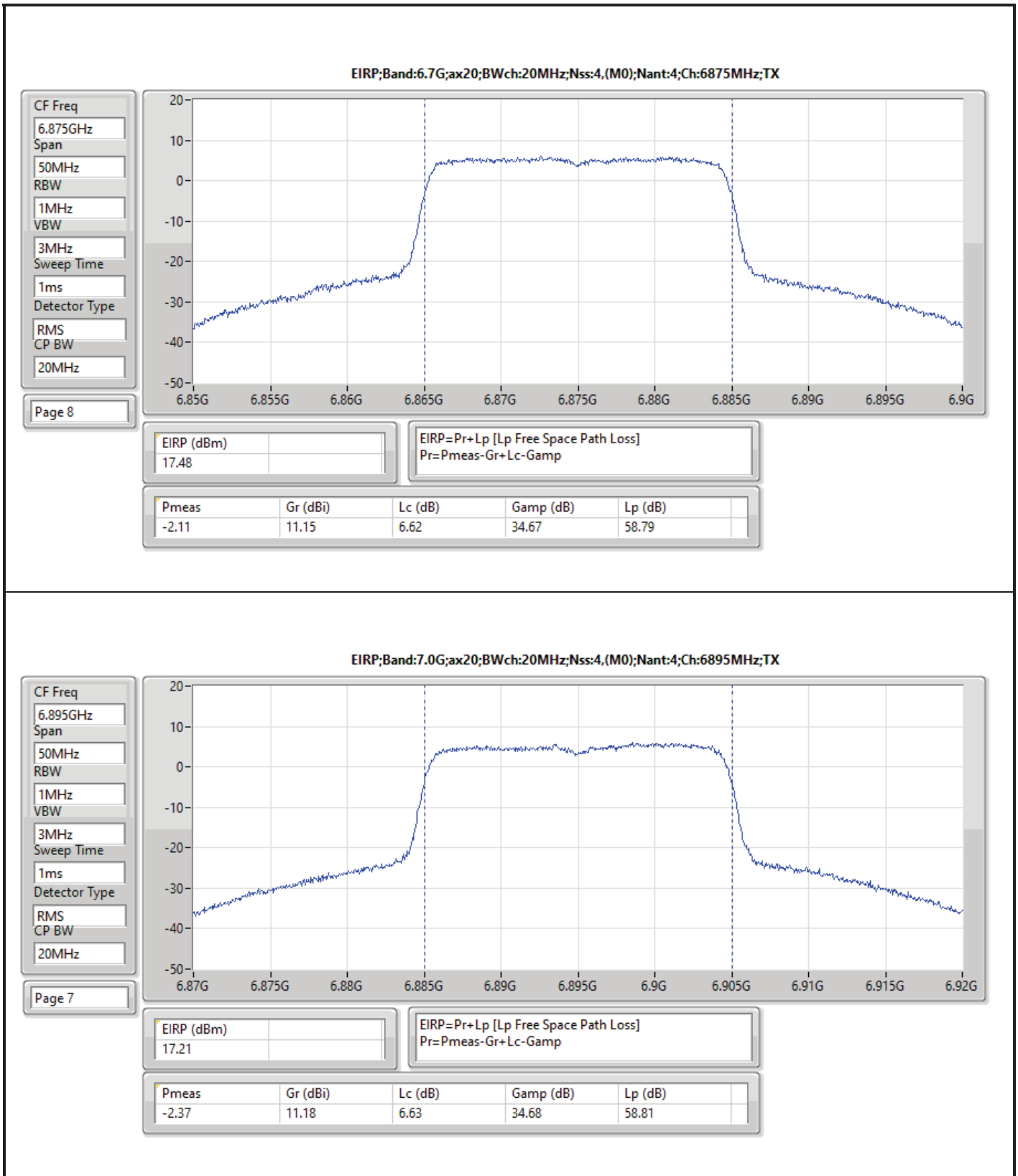
EIRP (dBm)

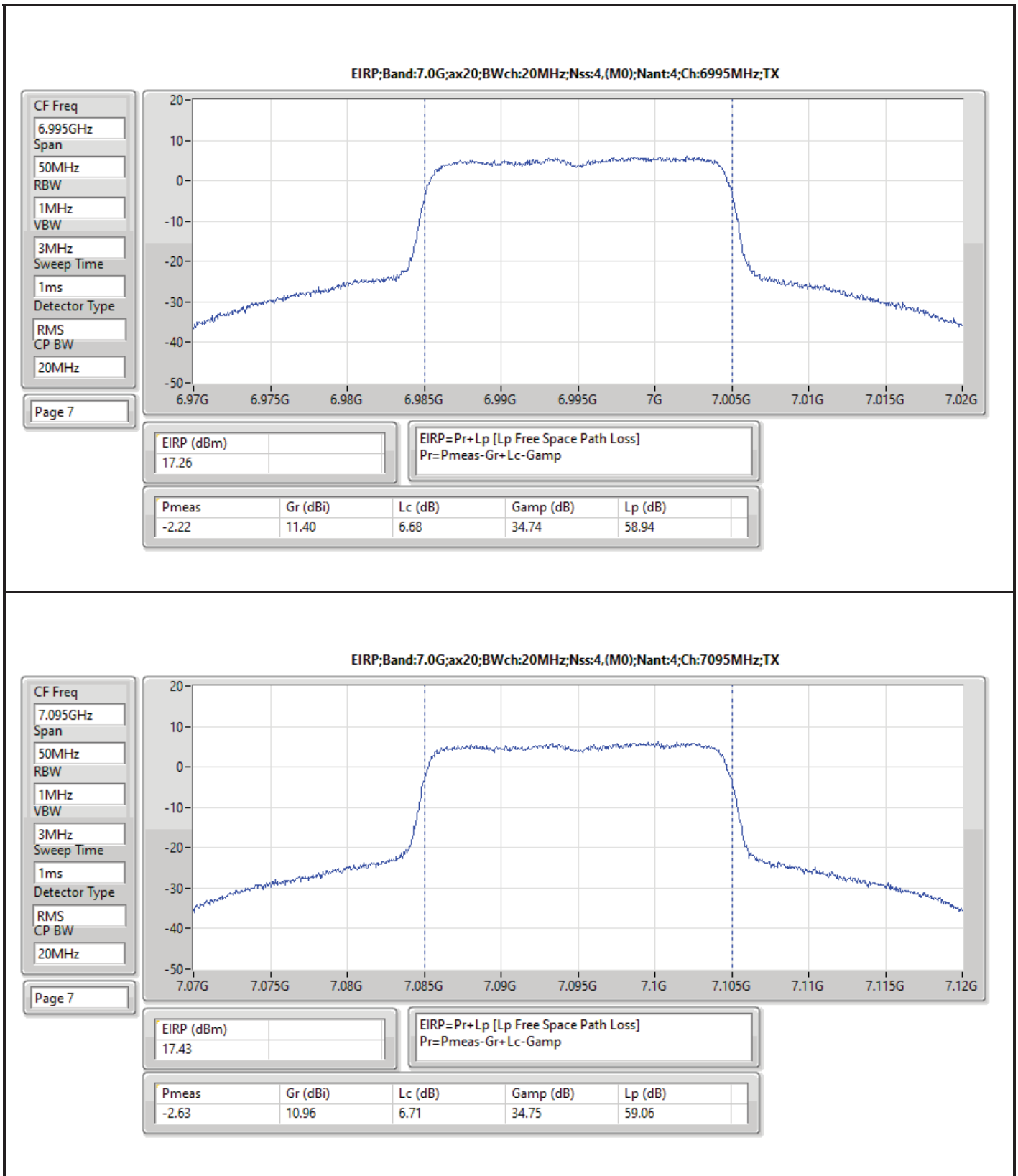
17.81

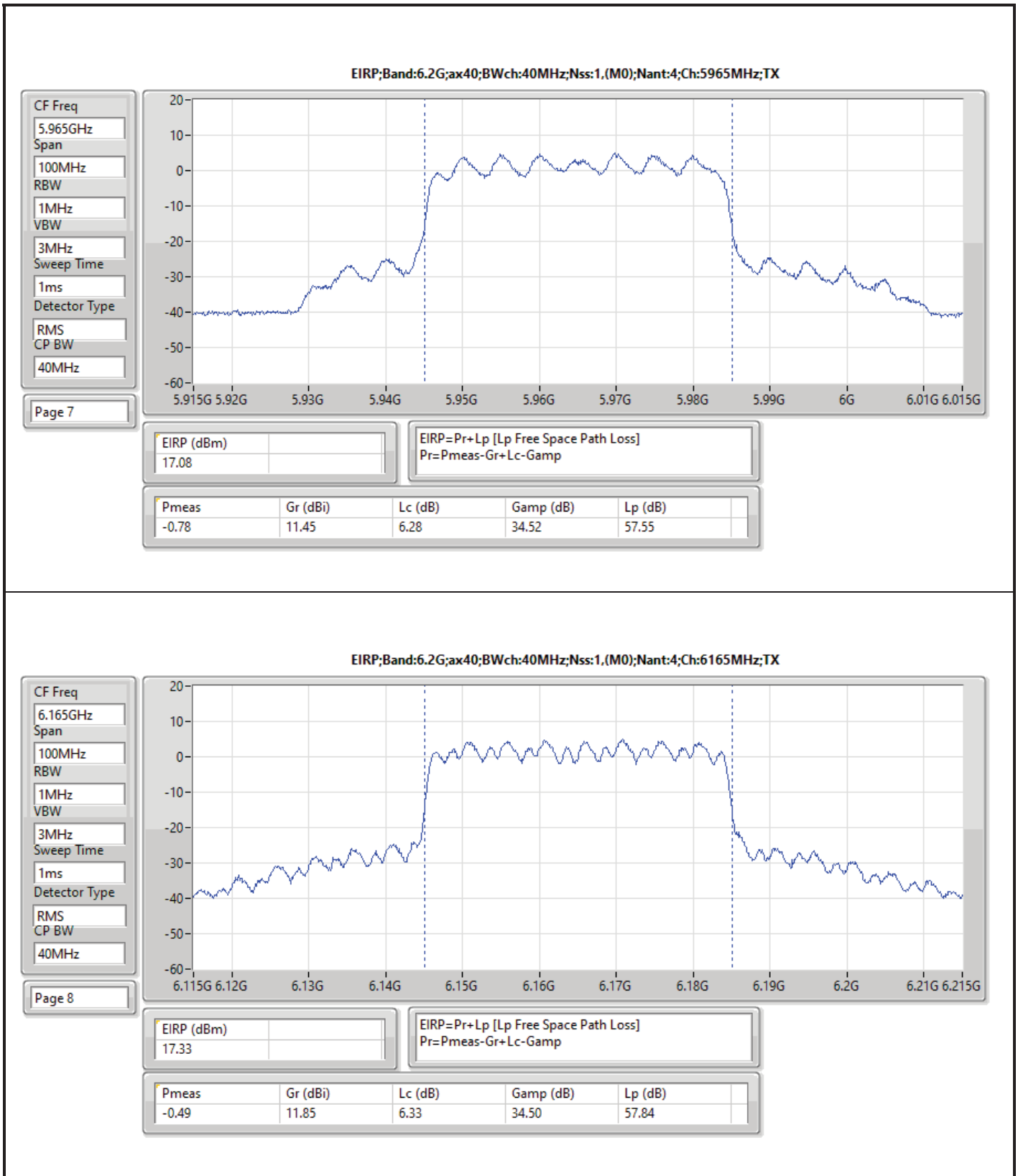
EIRP=Pr+Lp [Lp Free Space Path Loss]

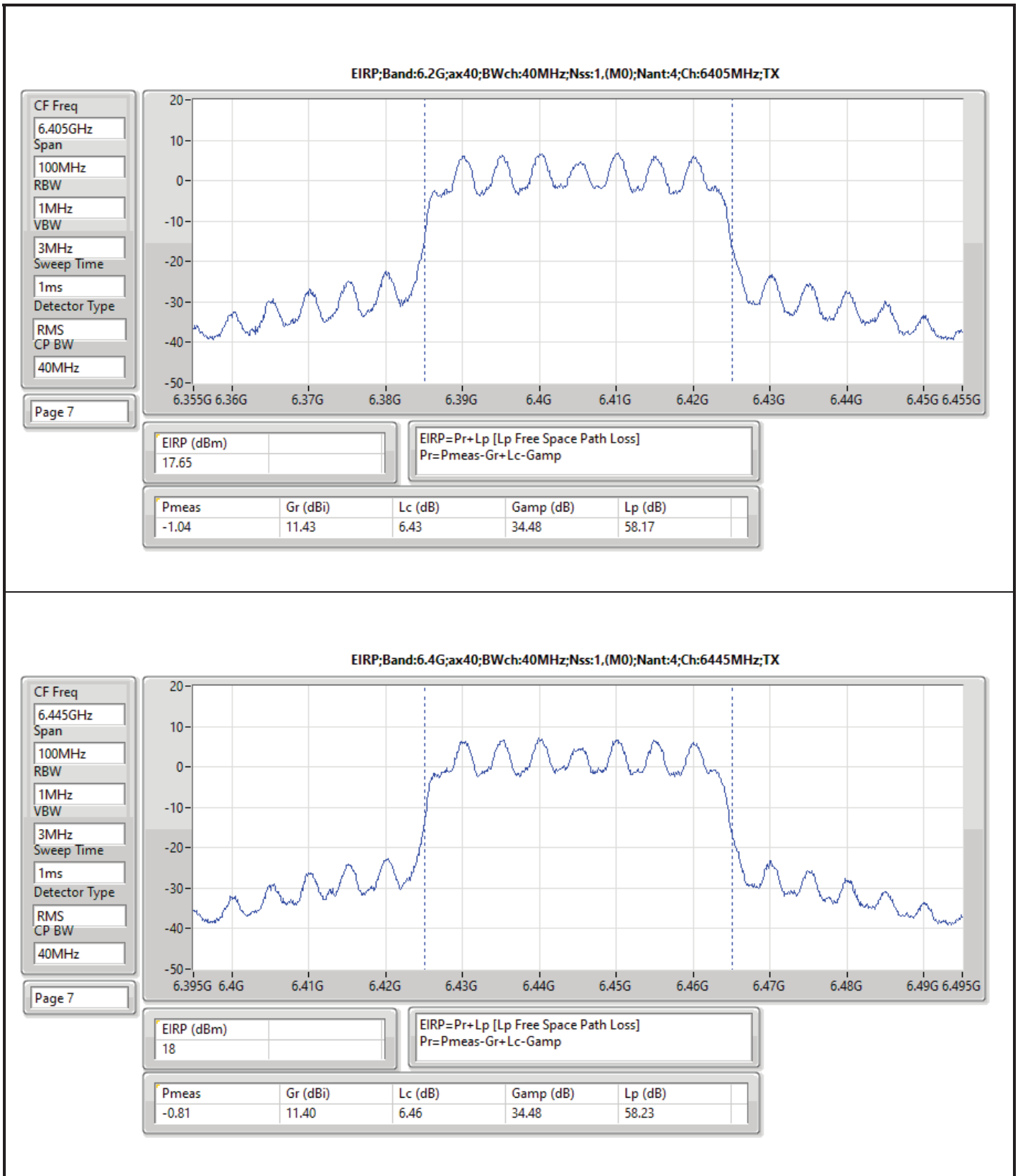
Pr=Pmeas-Gr+Lc-Gamp

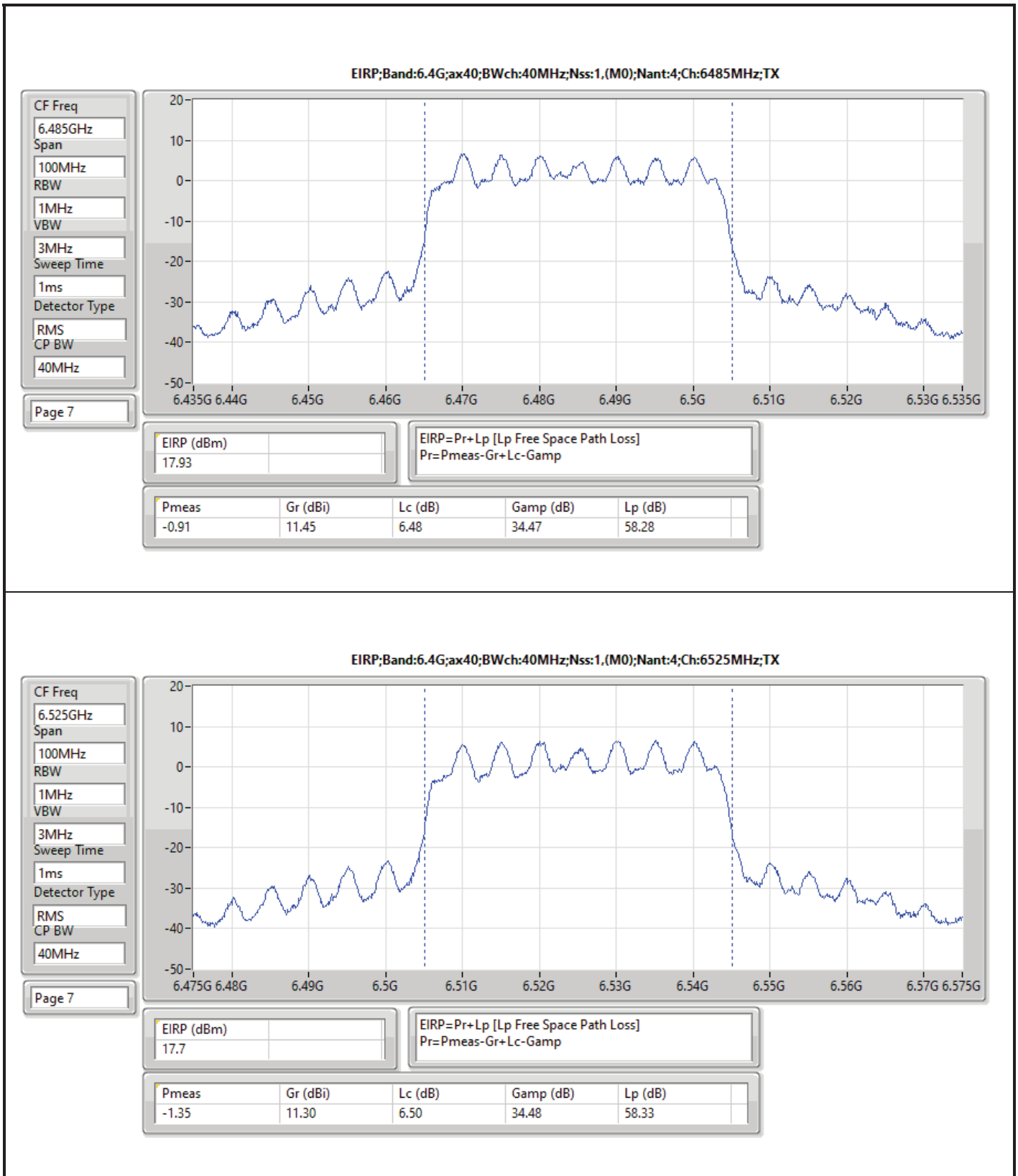
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-1.77	11.13	6.61	34.66	58.76

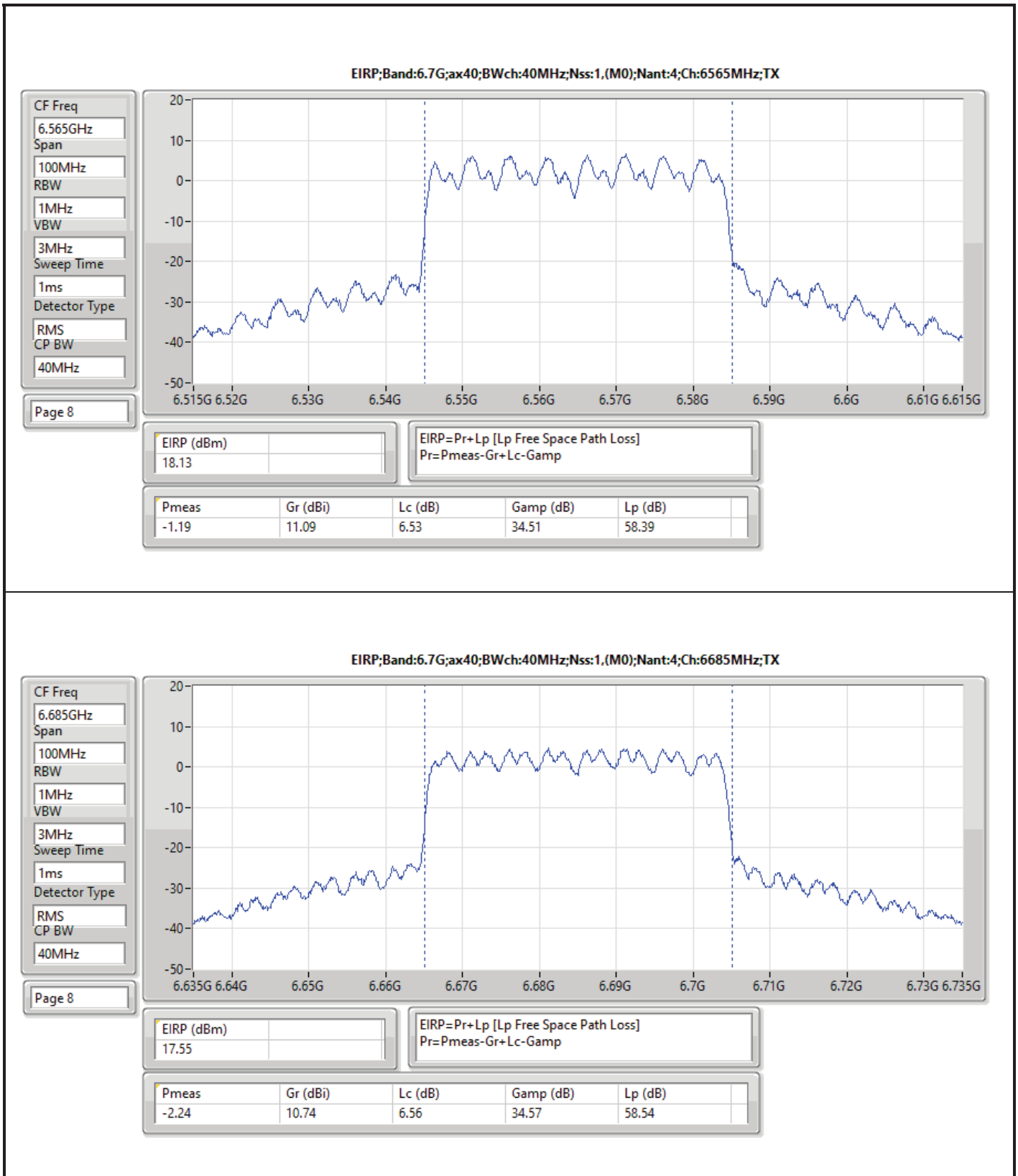


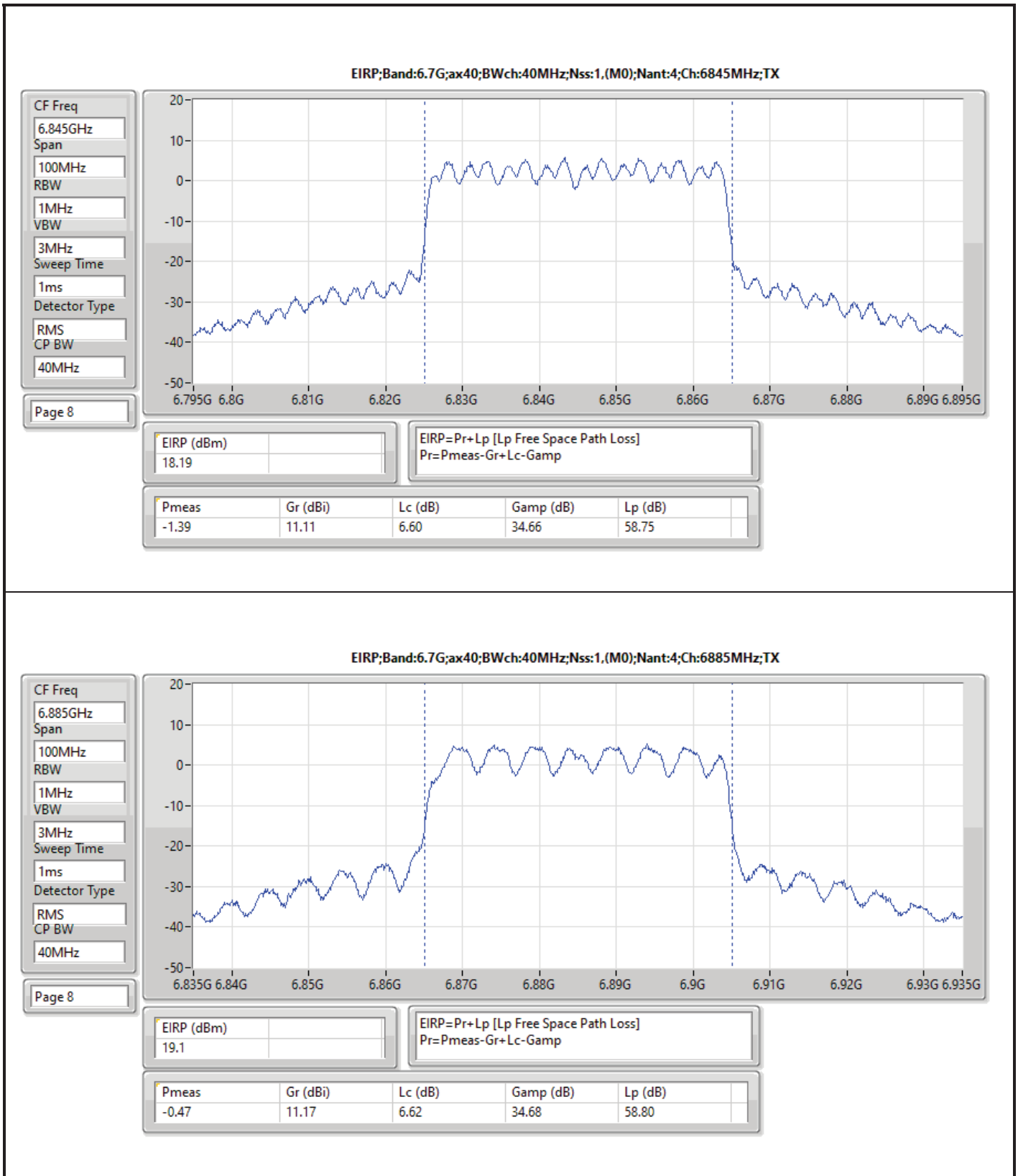


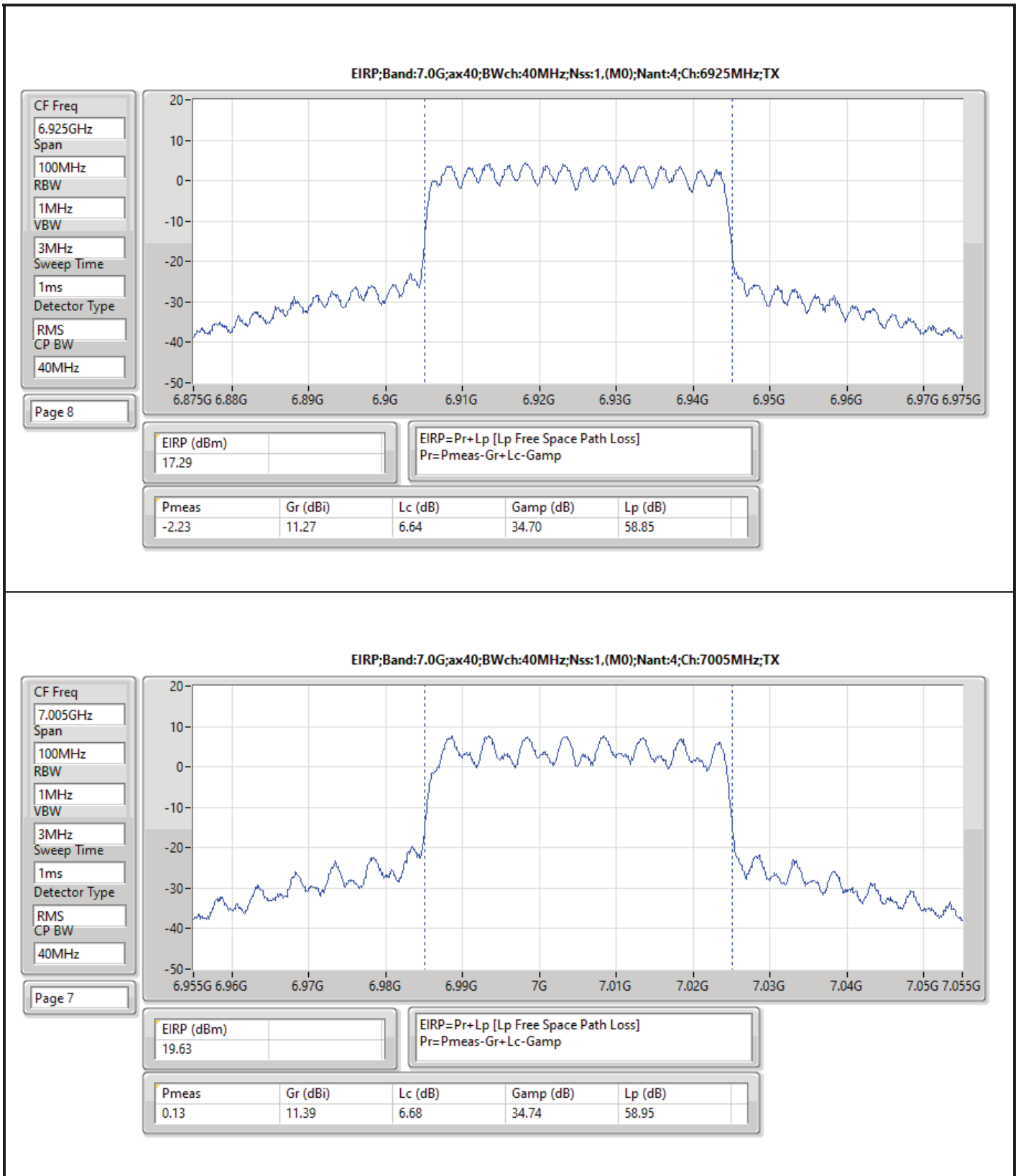


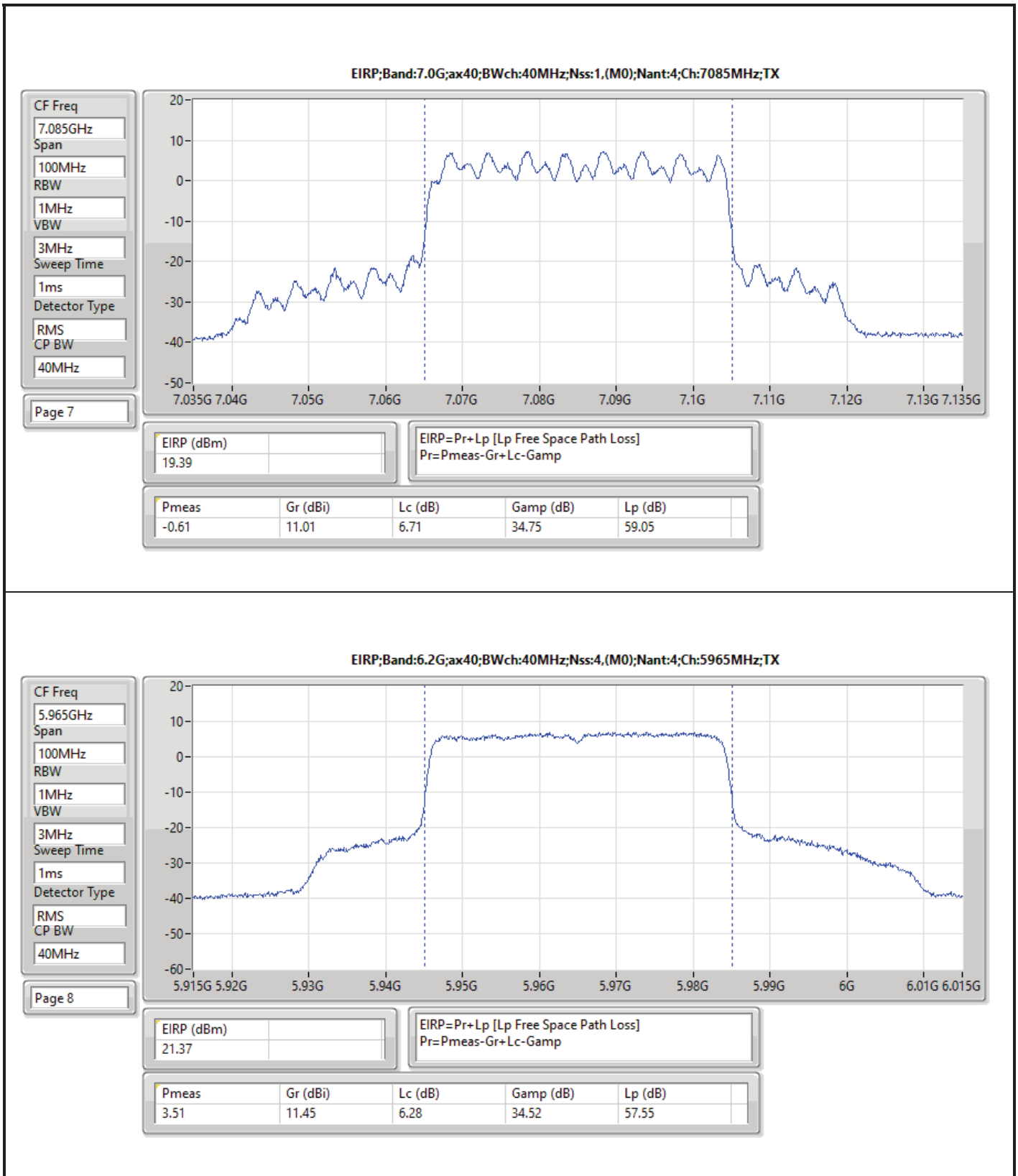


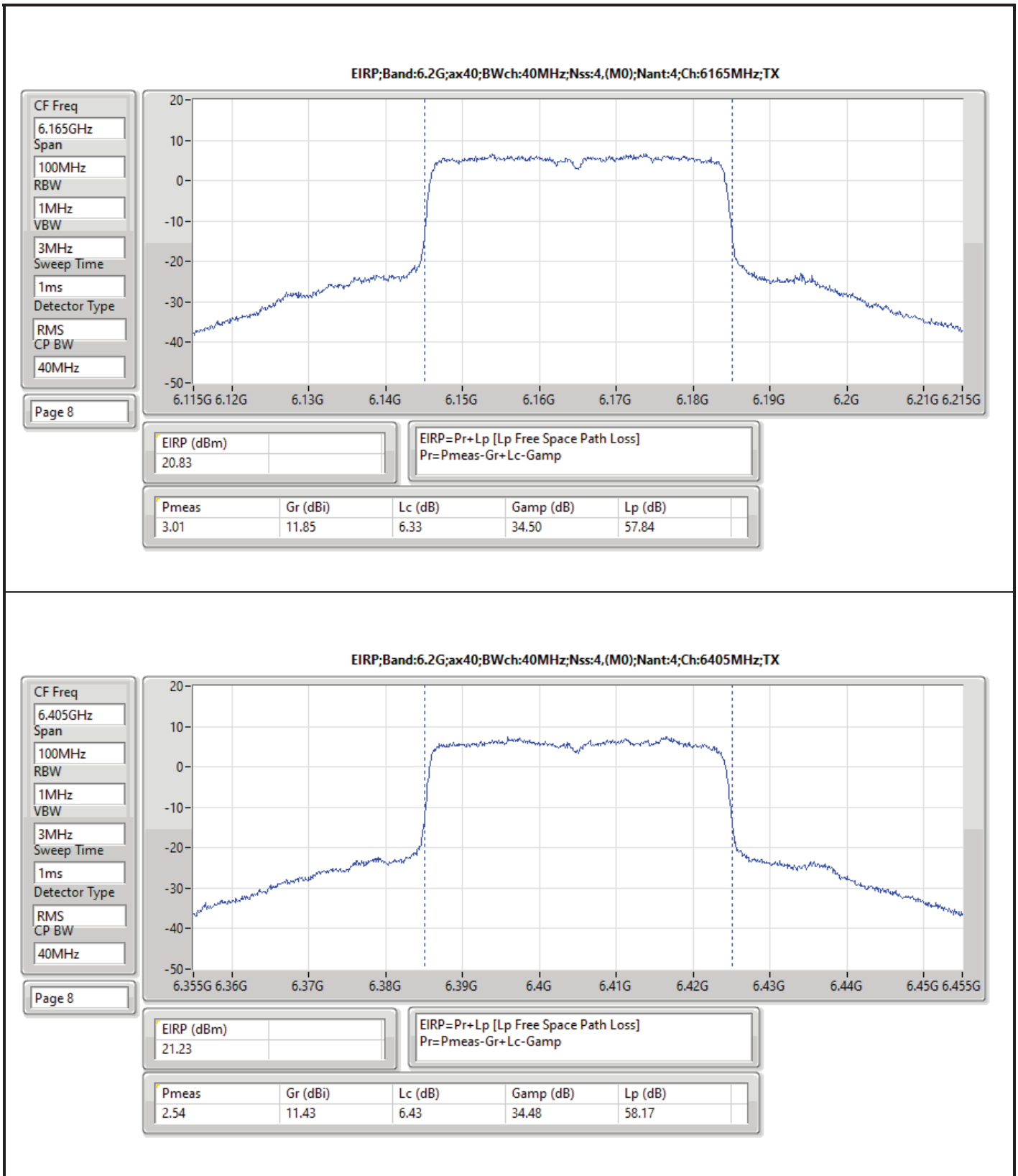


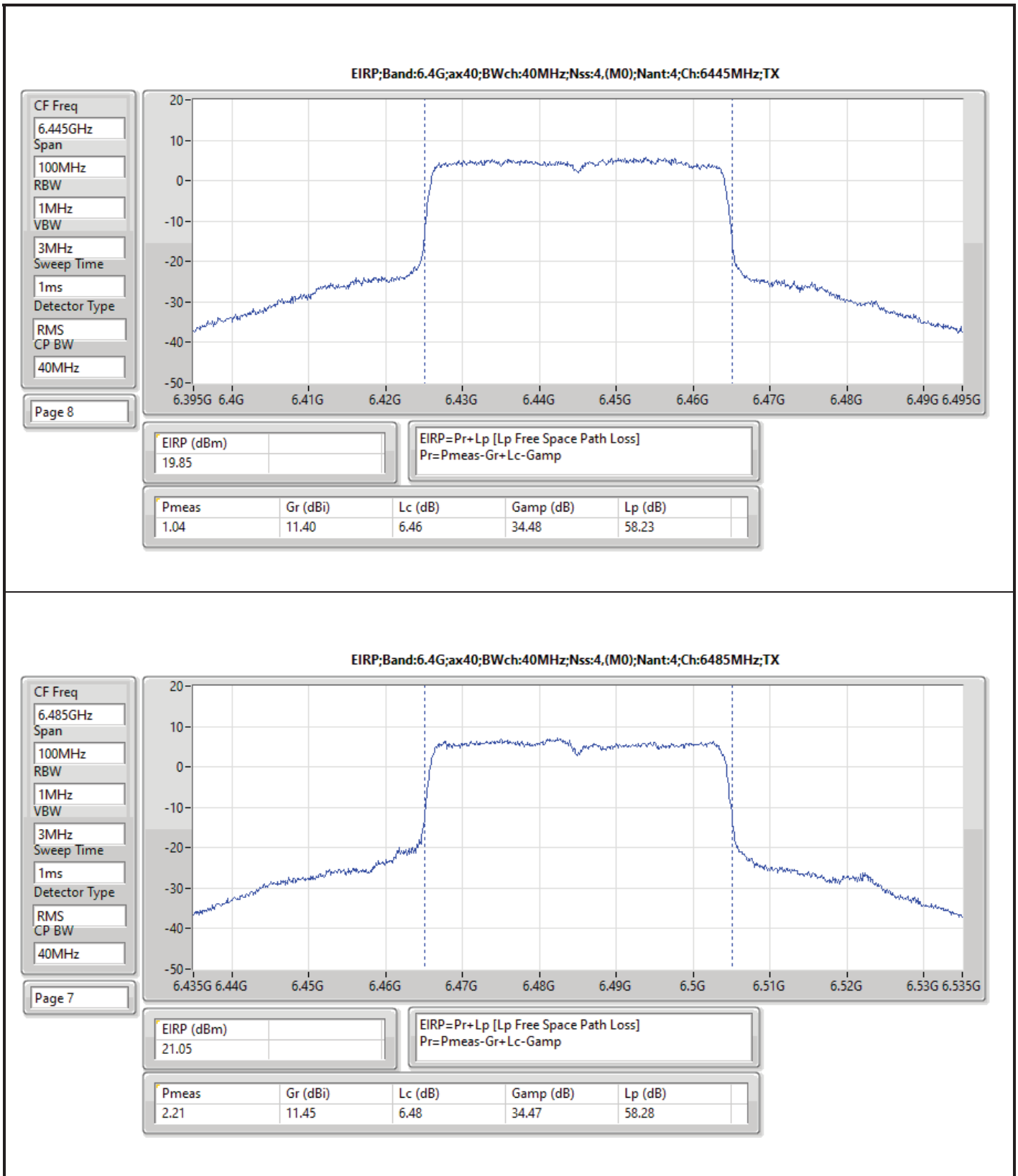


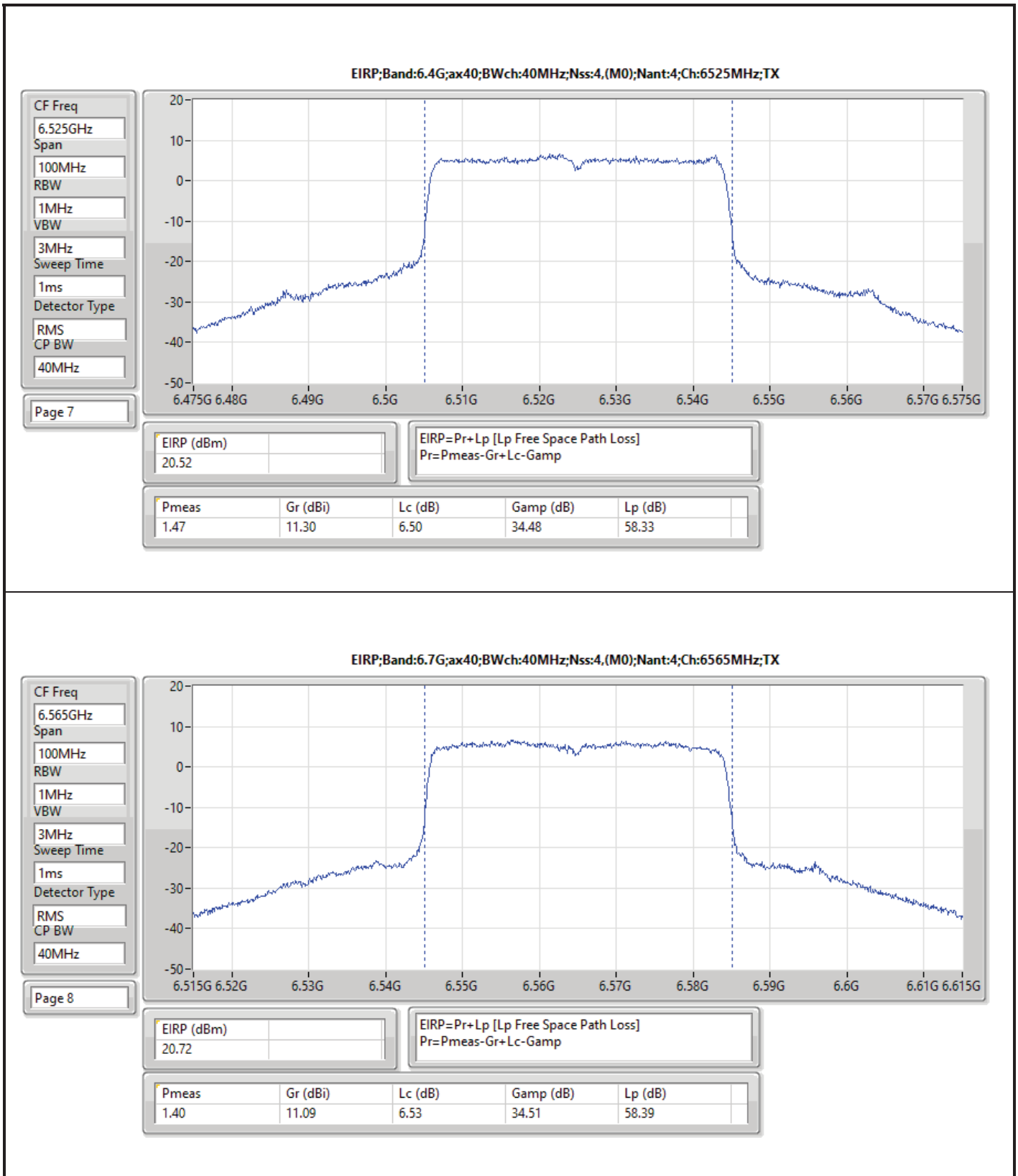


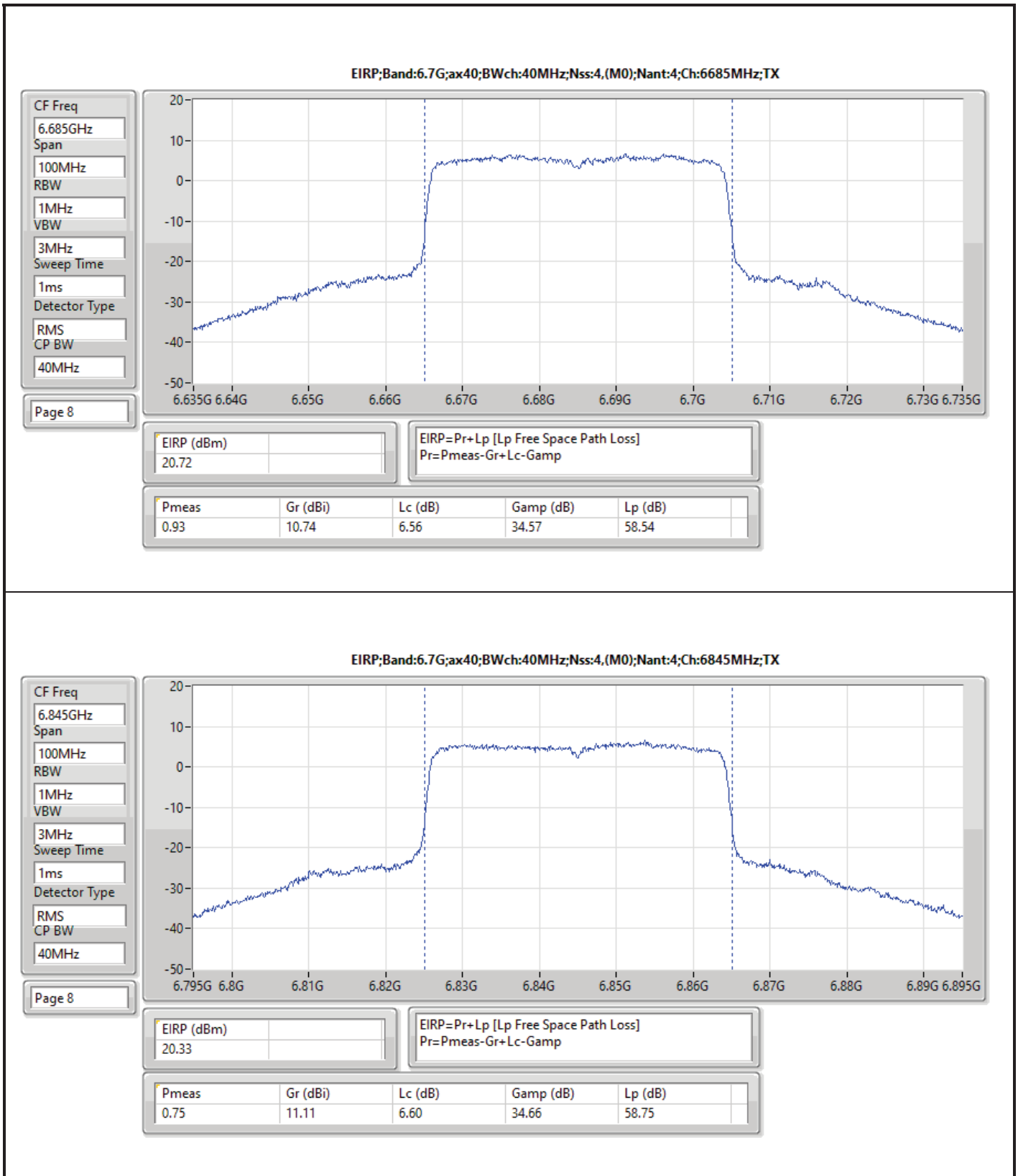


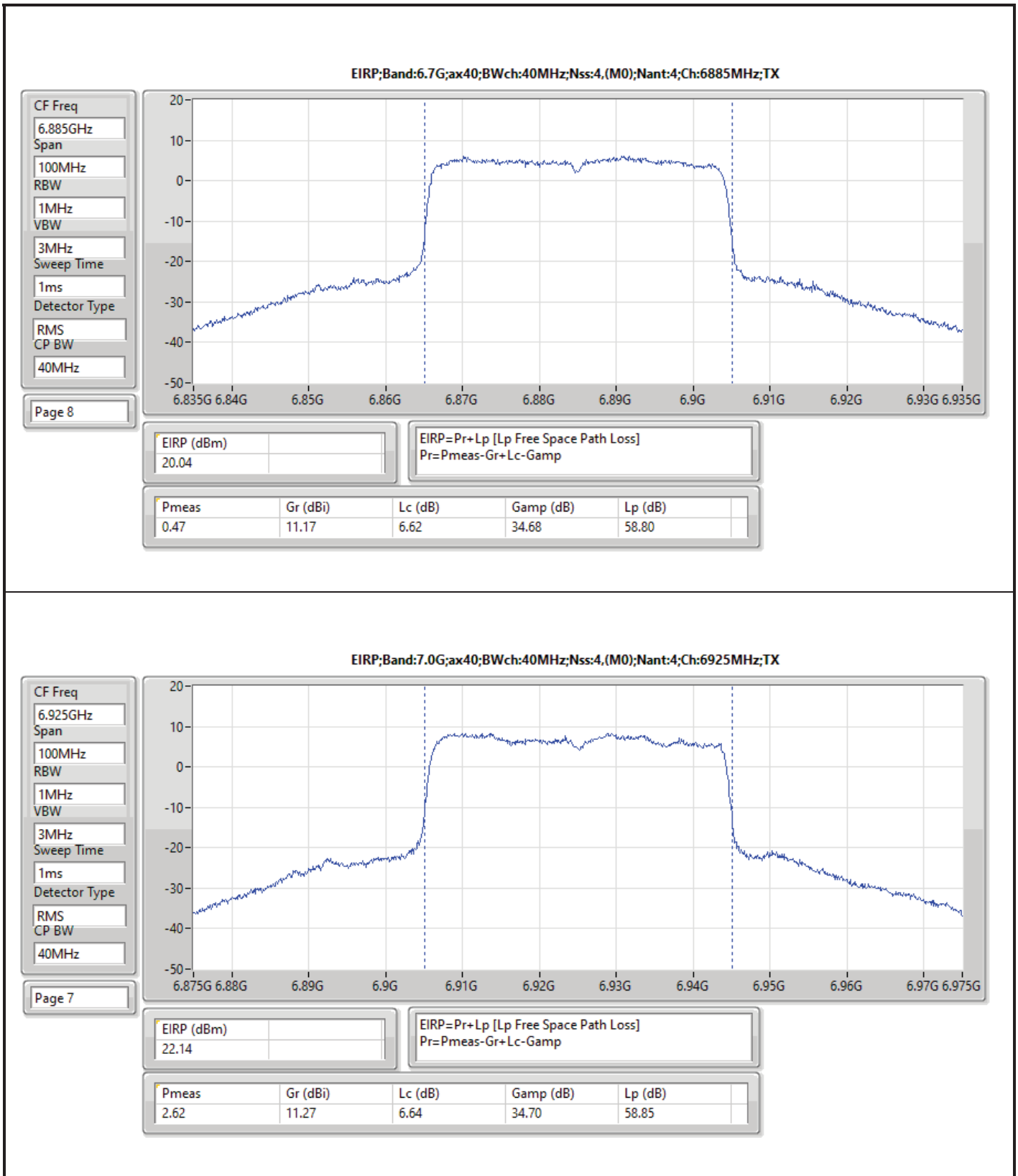


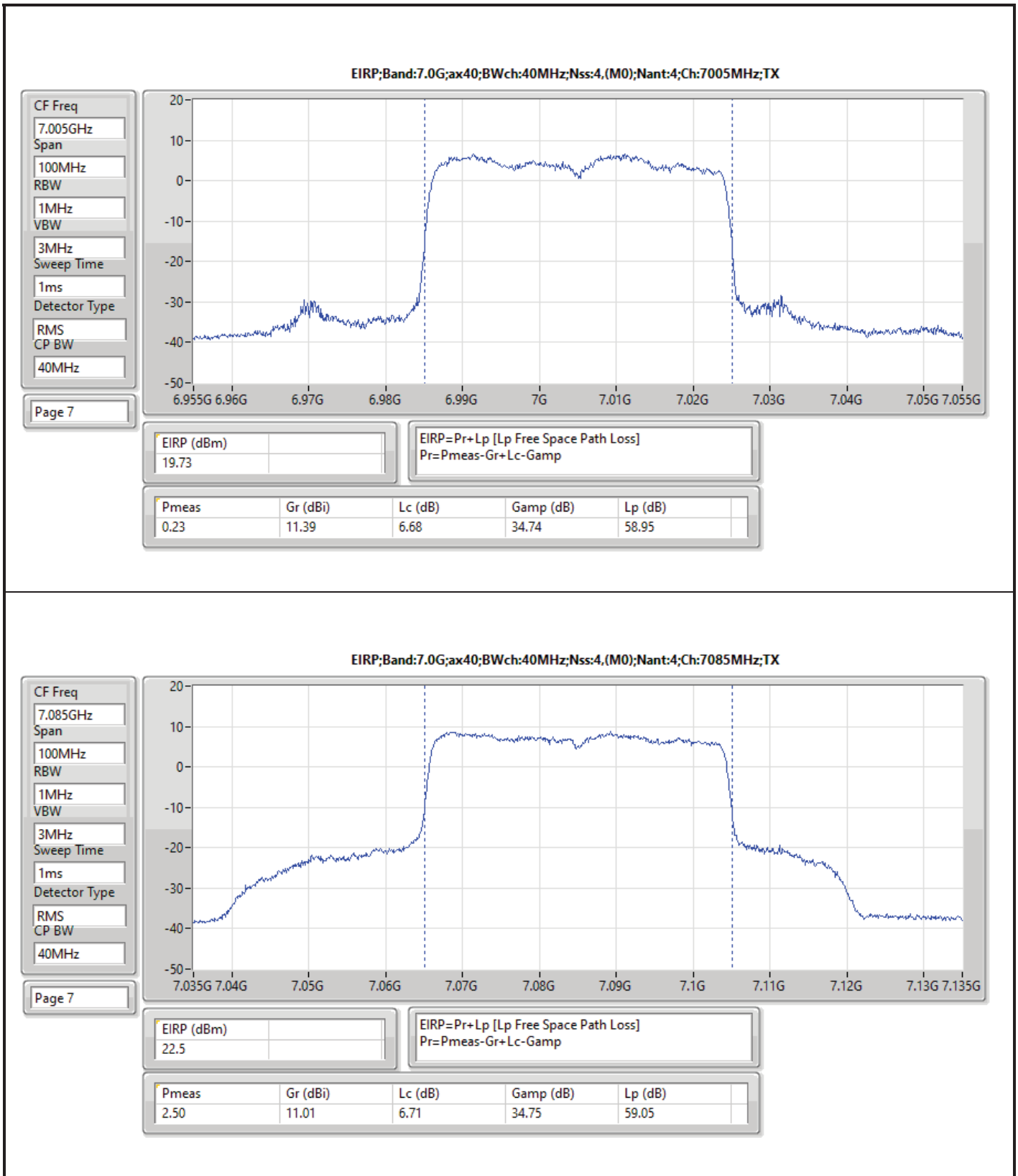


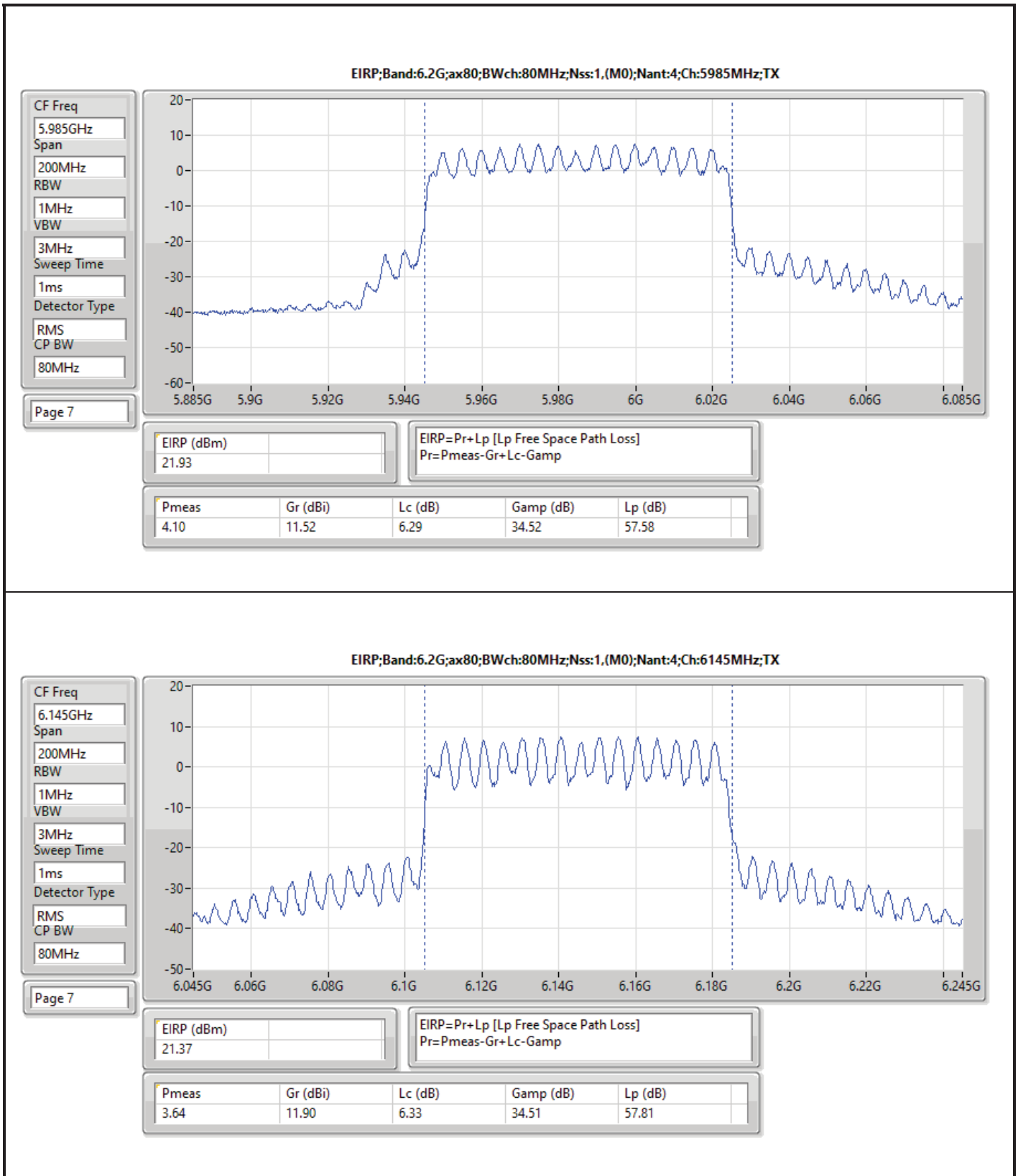


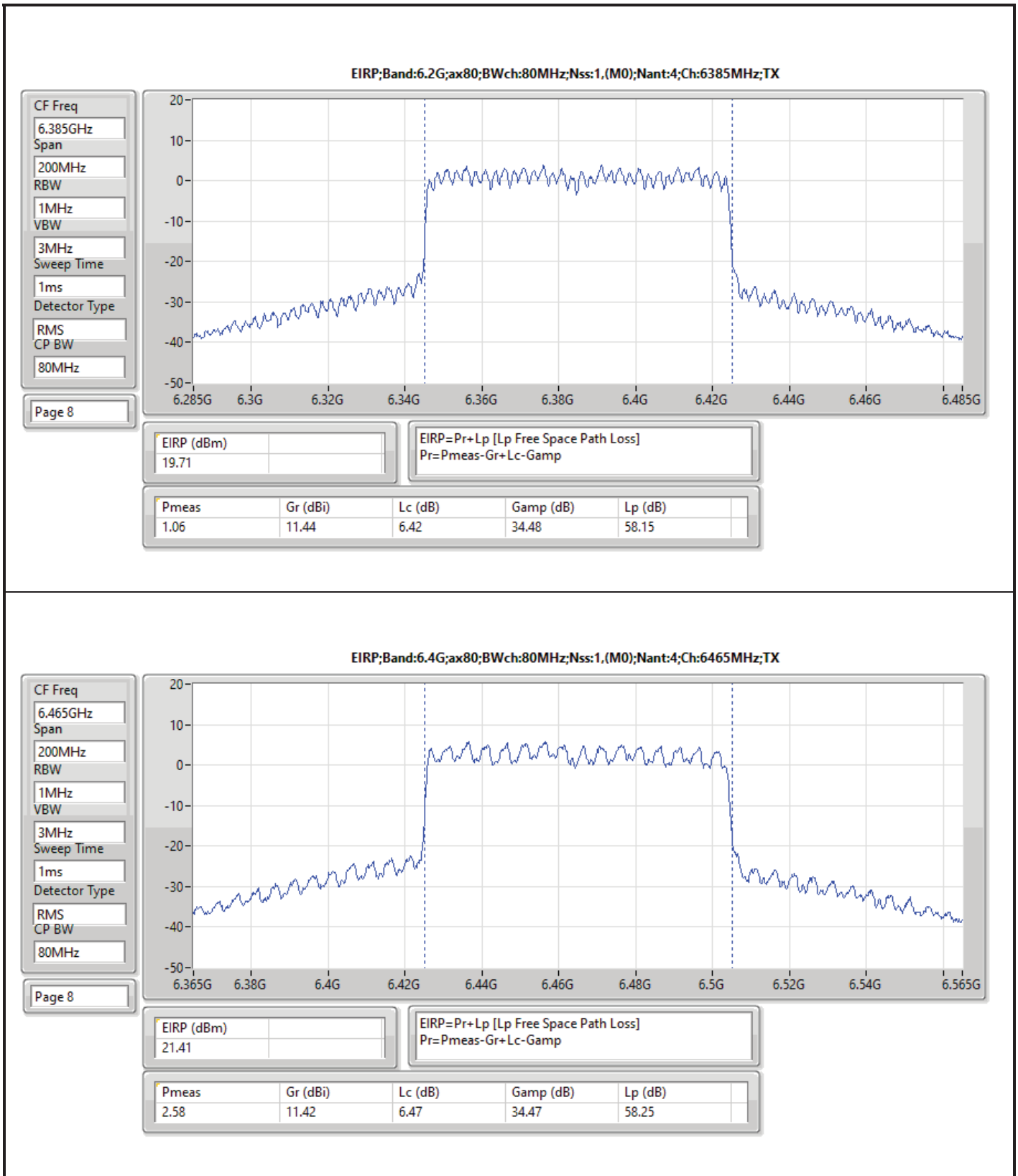


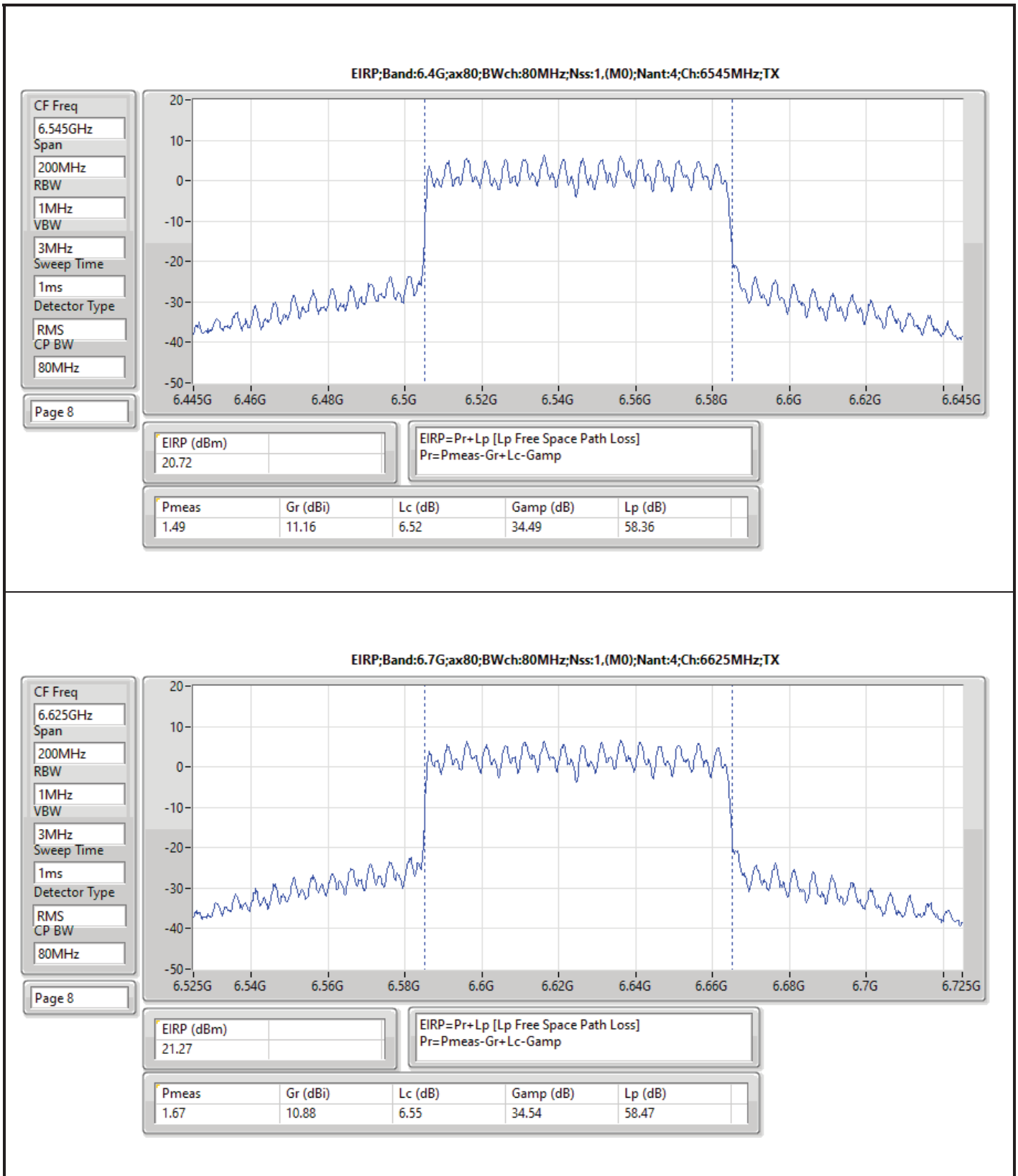


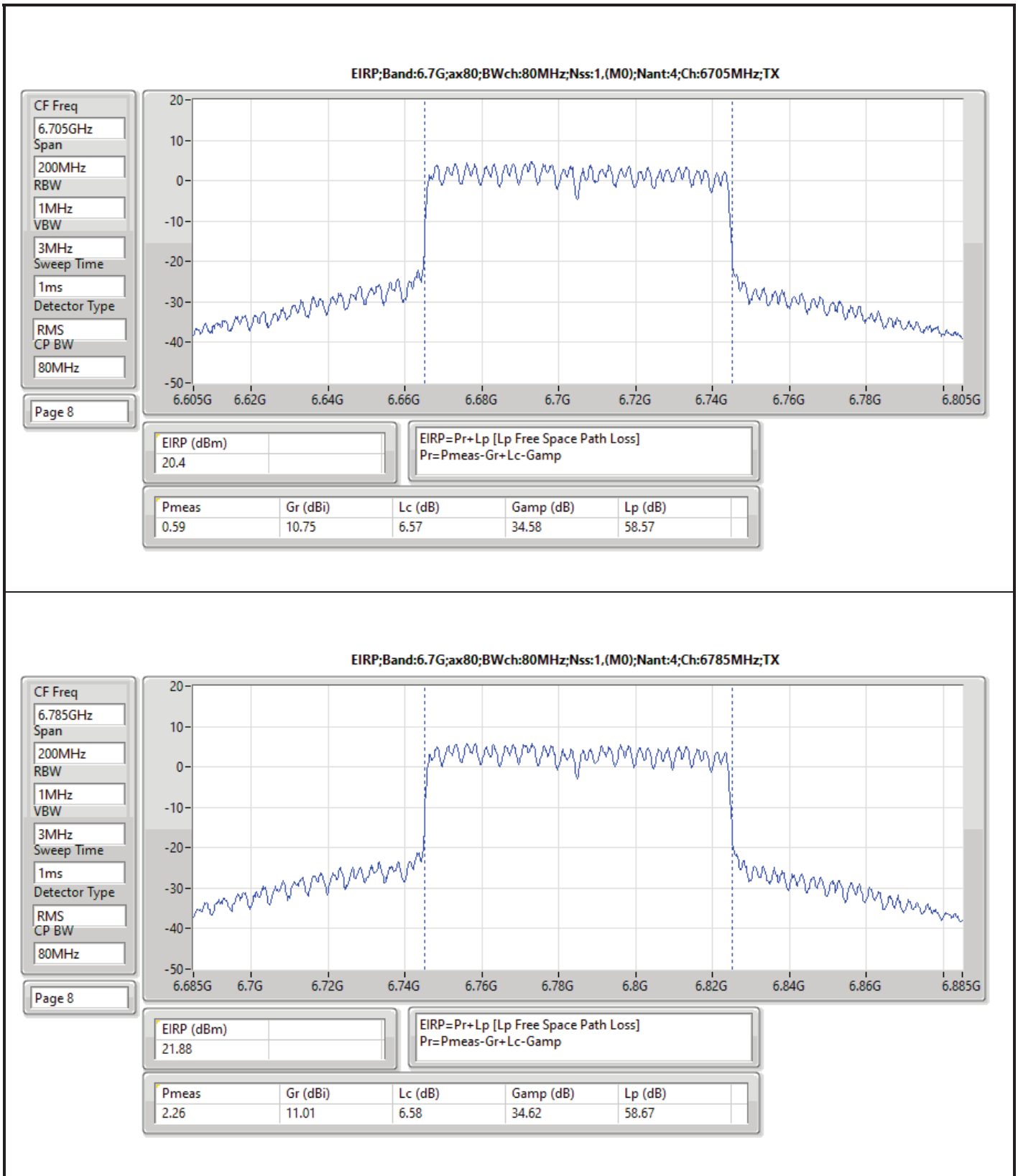


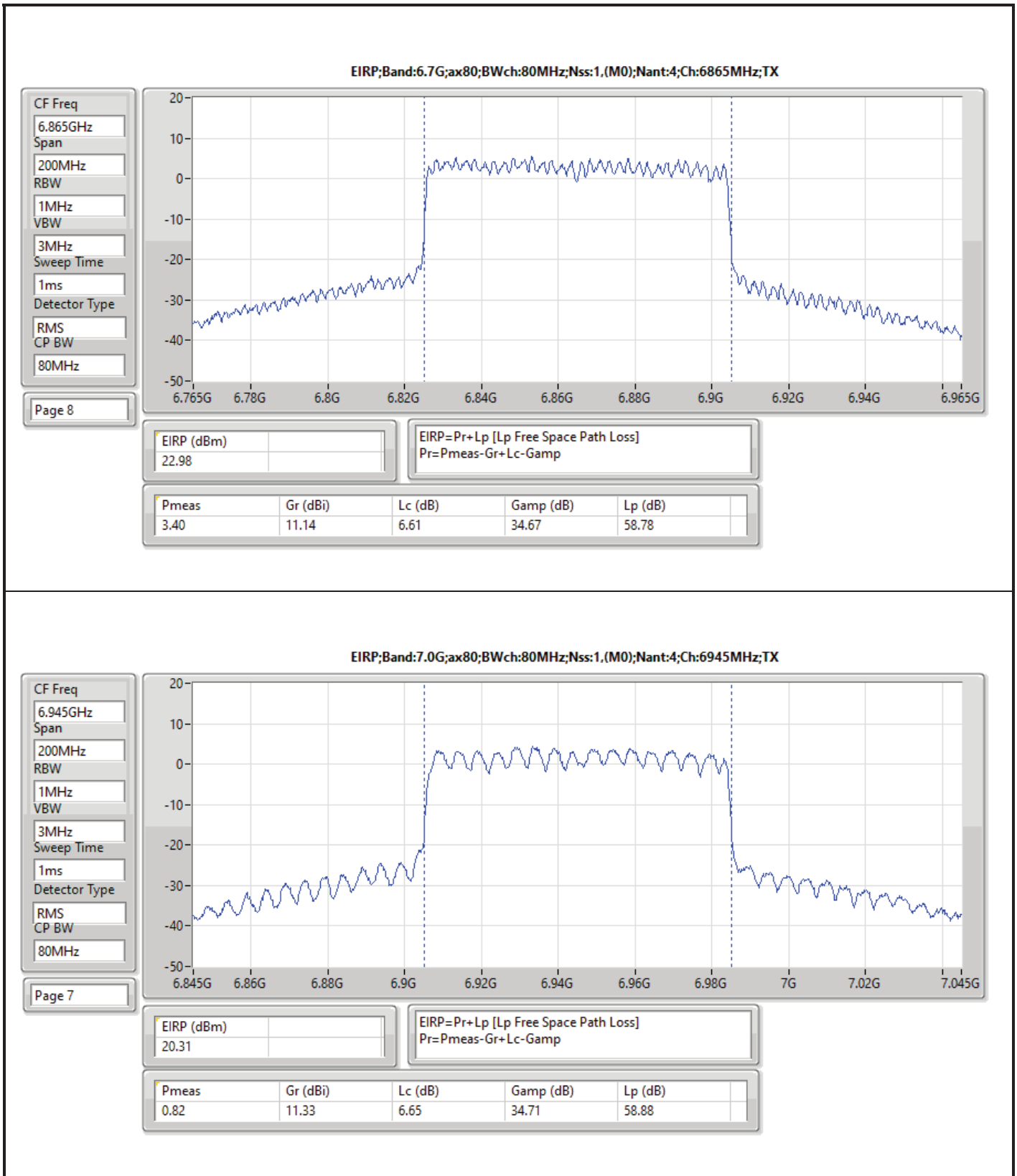


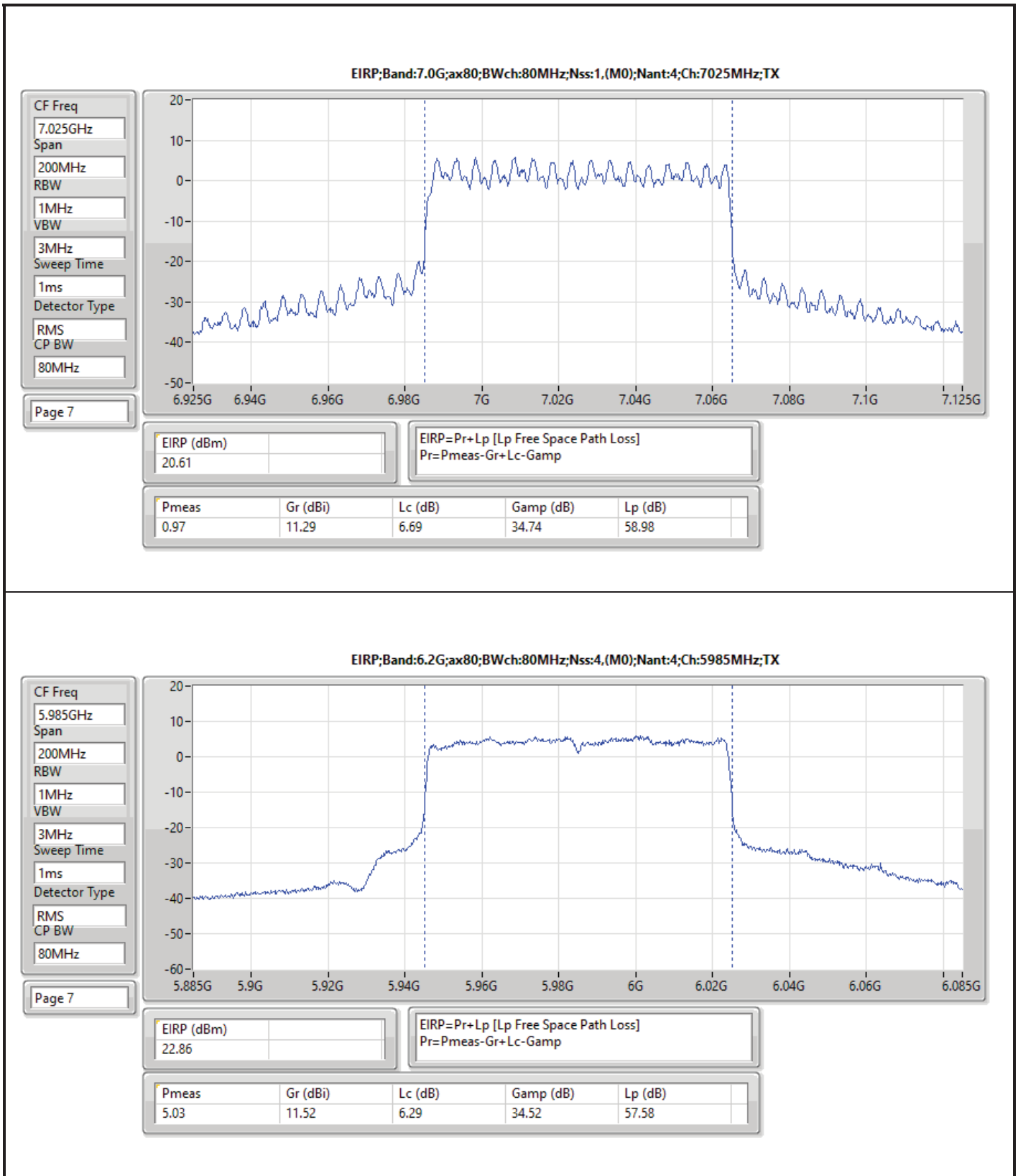


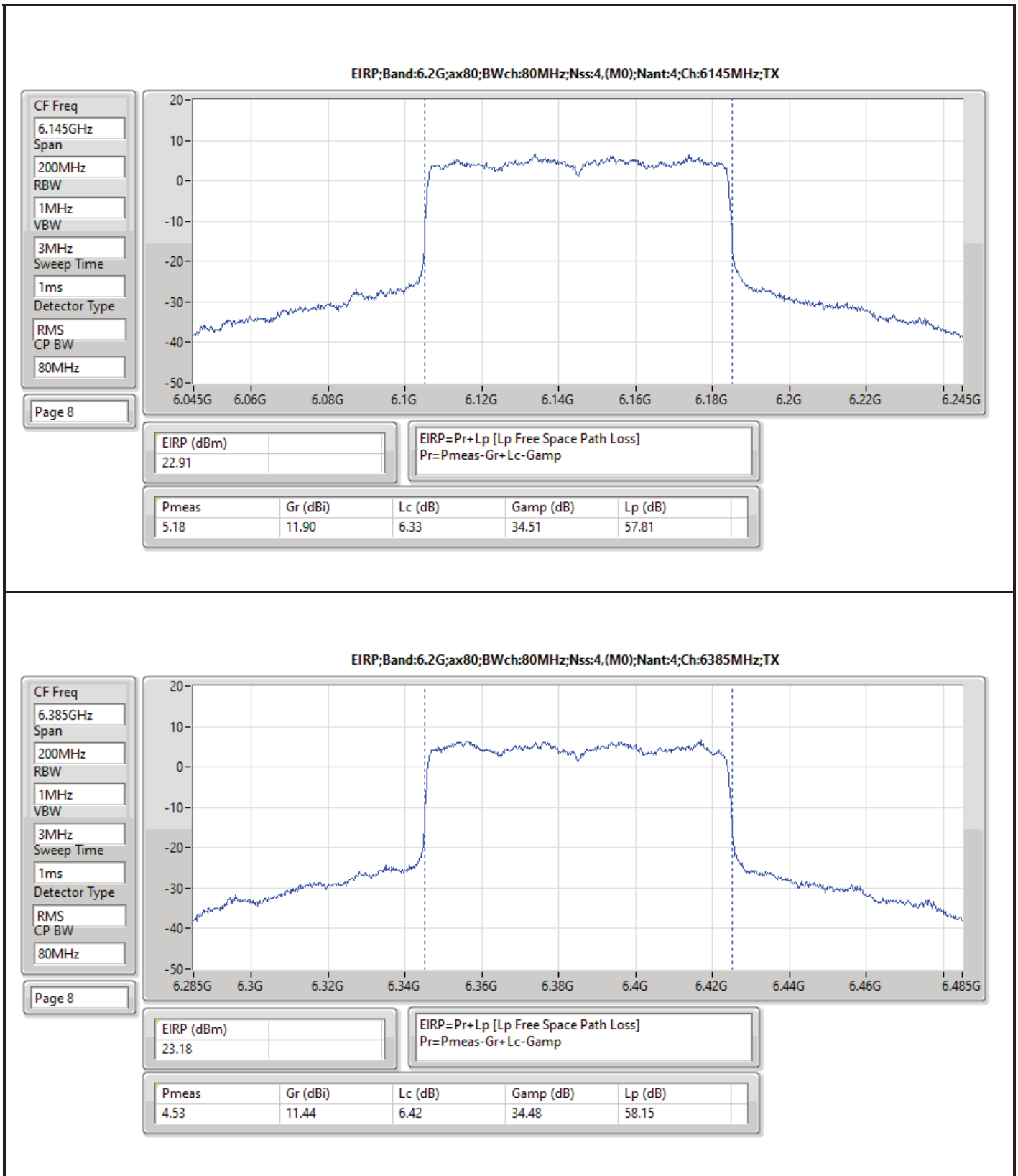


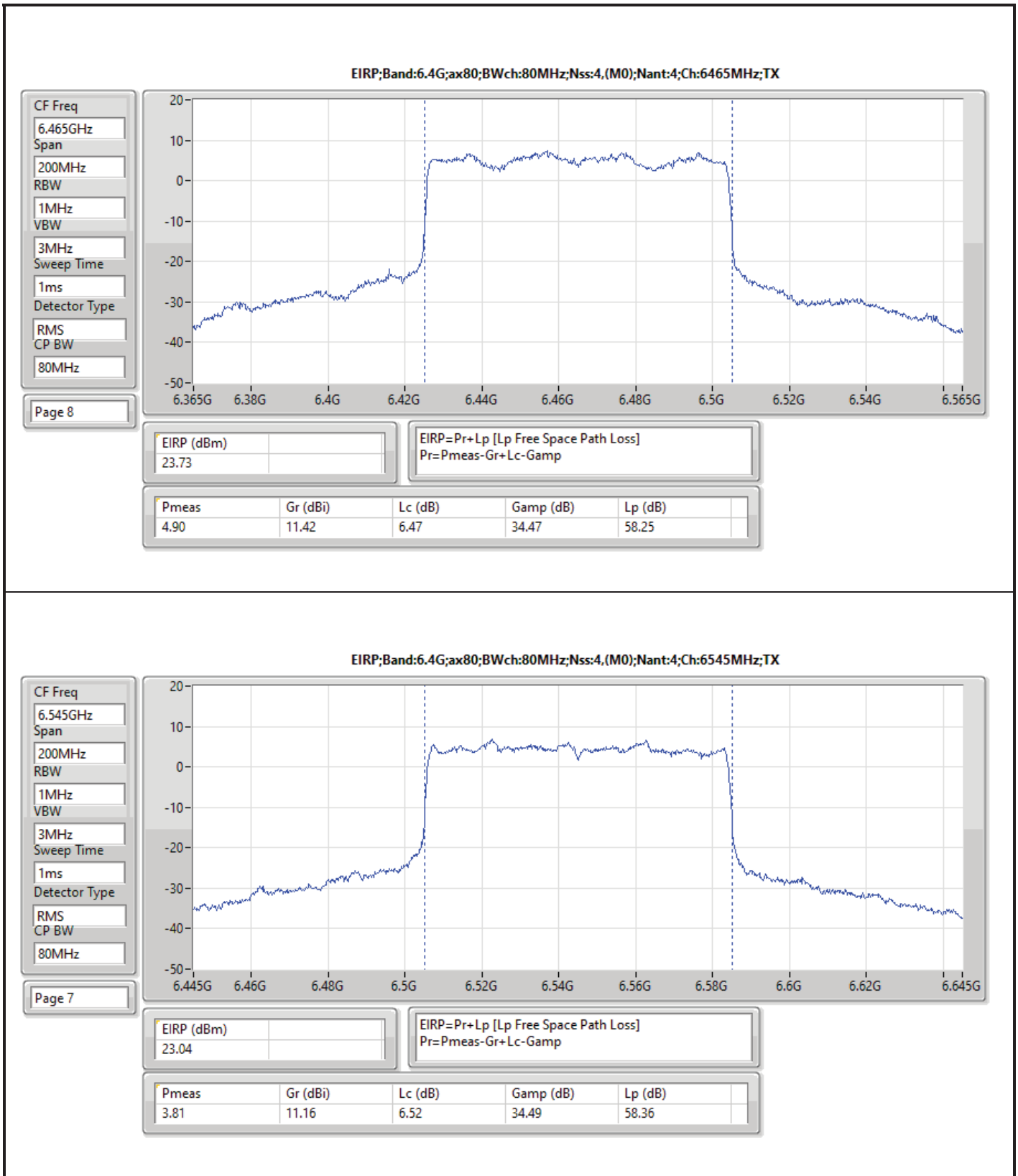












CF Freq

6.545GHz

Span

200MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1ms

Detector Type

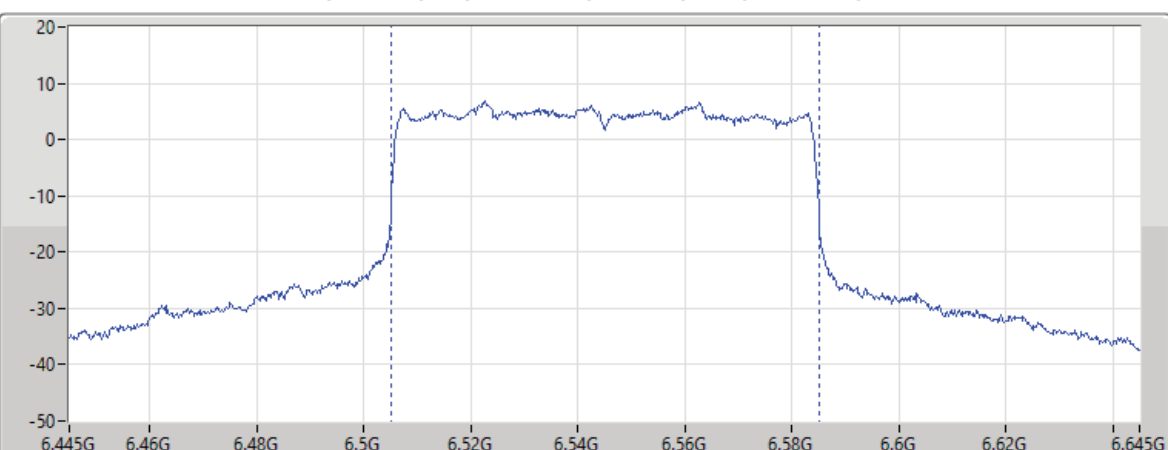
RMS

CP BW

80MHz

Page 7

EIRP;Band:6.4G;ax80;BWch:80MHz;Nss:4;(M0);Nant:4;Ch:6545MHz;TX



EIRP (dBm)

23.04

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
3.81	11.16	6.52	34.49	58.36

